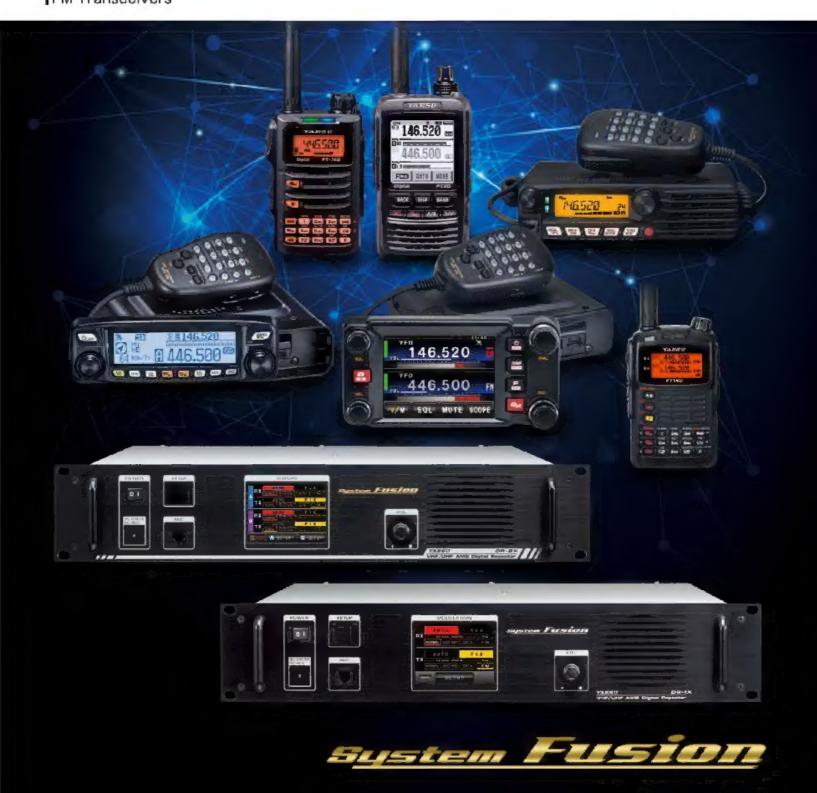


VHF/UHF AMATEUR RADIO EQUIPMENT

C4FM Digital Transceivers C4FM Digital Repeaters FM Transceivers



System Fusion

The best solution for the Future

The YAESU System Fusion leads the way for the future of Ham Radio digital systems; it provides total integration and compatibility of both digital and conventional FM communications.

Fusion of Conventional FM and Digital

System Fusion joins digital and conventional FM communication into a single, multi-function system.

With the revolutionary System Fusion, the user no longer needs to choose between digital or conventional FM; we can use the system best suited for our operations. Also, users can communicate freely between digital and conventional FM stations.

C4FM provides Excellent Audio Quality and Reliable Communication

which permits high quality voice communication.

C4FM modulation has better BER (Bit Error Rate) characteristics

when compared to other Digital modulation systems, and

guarantees reliable long distance communication. The YAESU

C4FM digital clear voice technology uses a 12,5 kHz bandwidth







Thanks to AMS, a received signal is instantly recognized as C4FM digital or conventional FM. The transceiver switches operating modes to match the received signal. Even if you are operating in

digital mode, the transceiver automatically switches so you can communicate instantly with a received FM station. This unique function enables hassle-free operation by removing the need to manually switch between the communication modes.

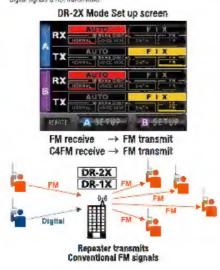


Repeater Set-up for conventional

FM Transmit only

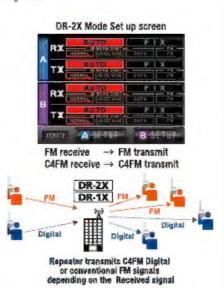
When replacing an existing conventional FM repeater, Set the AMS on the receiver side to AUTO mode, and set the repeater output transmitter side to FM FIX mode, if the DR-2X/DR-1X repeater receives C4FM Digital signals, it converts them to conventional FM automatically. 11

*1 C4FM digital signals are converted to FM signals in the repeater. Therefore, digital information such as GPS data included in the C4FM digital signals is not transmitted.



Repeater Set-up for C4FM Digital and conventional FM Transmit

AMS is set to AUTO mode on both the receiver and transmitter sides. DR-2X/DR-1X transmits received conventional FM signals unchanged as conventional-FM signals, and transmits received C4FM digital signals unchanged as C4FM digital signals.



FM Friendly Digital

Until now, FM repeaters were only used for conventional FM communication; and digital rapeaters were only used for digital communication. There has been no option for cross-communication in a single repeater. Now, System Fusion can be used in multiple ways; for digital message and data, for conventional FM communication and even internet linking. Most importantly, System Fusion enables intercommunication between all users of the different modes. This is made possible in System Fusion by the AMS (Automatic Mode Select) function. With AMS, the modulation mode of your station is automatically selected according to the received signal. If a member transmits in conventional FM, the other radios in System Fusion AMS automatically select their modulation to conventional FM and permit communication between all members.

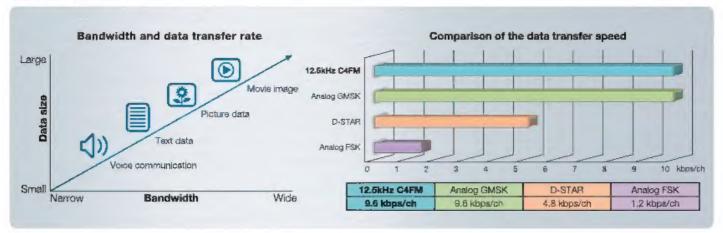


The advantages of C4FM digital

9600 bps high speed data using 12.5 kHz bandwidth

The big advantage of digital communication methods is the ability to convey large amounts of data. C4FM digital attains 9600 bps data transmission speeds by using a 12.5 kHz frequency bandwidth.

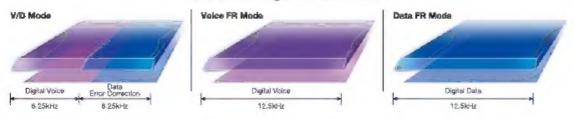
It achieves digital advantages, such as the data transmission of a snapshot, or high quality voice communication etc. 12.5 kHz C4FM modulation is excellent for digital communications, and provides for the expansion of amateur-radio communication without sacrificing other valued features.



Three C4FM digital modes and the conventional FM mode

In System Fusion, you can choose between three C4FM digital modes and the conventional FM mode to suit your needs.

12.5kHz C4FM Digital Communication



V/D mode (Voice/Data Simultaneous Communication Mode)

The digital voice signal is transmitted using one half of the bandwidth, Simultaneously the other half of the 12.5 kHz bandwidth channel is used for error correction of the voice signal and for other data. The standard C4FM Digital mode provides the ideal balance of error correction and sound quality with the Digital Clear Voice technology developed for C4FM digital.

Voice FR mode (Voice Full Rate Mode)

This mode uses the full 12,5 kHz bandwidth to transmit digital voice data. The increased amount of voice data permits high quality voice communication, providing superb sound quality for a "rag chew" with friends.

Data FR mode (High Speed Data Communication Mode)

This high-speed data communication mode uses the full 12.5 kHz bandwidth for data communication. The transcelver automatically switches to Data FR mode when transmitting Snapshot pictures, and can be used to transmit large quantities of data at high speed.

Conventional FM mode

Analog FM is effective when weak signal strength causes audio drop out in the digital mode. The FM mode enables communication up to the borderline of the noise level. Also the use of established Yaesu low power circuit designs provides far less battery consumption than the digital mode.



Advanced C4FM Technology Opens up New Vistas for Amateur Radio The New Style Handheld Transceiver

C4FM/FM 144/430 MHz DUAL BAND 5W DIGITAL TRANSCEIVER

FT2DR:US, Asia and Australia FT2DE:Europe

(2200 mAh Lithium Ion Battery SBR-14LL. Battery charger PA-48 /SAD-18B(US version) / SAD-16H(Australian version), USB Cable and Belt clip SHB-13 included)



Easy Operation with Large Touch Panel Display

A major highlight of the transcelver's sleek design is the large display measuring 1.7 x 1.7 inch (43.2 x 43,2mm). With 160 x 160 dots and a bright white LED backlight, it presents a wealth of information in superb high resolution. Function keys, numeric keys, and setup menu items appear on the display as needed, allowing direct operation without guesswork. Additional functions may be operated with the knobs and keys on the front and side of the transceiver,



FM friendly digital realized by

AMS (Automatic Mode Select)

The Automatic Mode Select (AMS)

function instantly selects

the received signal mode.

Support for Sophisticated C4FM Digital Functions

Enhanced Digital Group ID Feature

Using the C4FM digital mode, a Digital-Group-ID can be set by all the members of a group and then communications can be directed specifically to the group. Also, the Group Monitor (GM) function automatically alerts the user when group members are within communication range, and displays their distance and direction on the screen.

Snapshot function

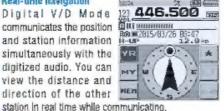
When the optional speaker microphone camera MH-85A11U is connected, you can easily take a snapshot. Captured images as well as received images can be viewed on the screen.



Smart Navigation Function

Real-time navigation

Digital V/D Mode communicates the position and station information simultaneously with the digitized audio. You can view the distance and direction of the other HER



This function allows navigation back to the departure point, or a point previously added to the GPS memory.

Simultaneous C4FM/C4FM standby

The FT2DR/DE supports simultaneous C4FM Digital monitoring for both the A Band and B Band. A digital signal received on either band takes priority of the transceiver operation. You can respond smoothly and swiftly to the digital communication. What's more, call sign and position information as well as other data can be received simultaneously on both bands.

Loud 700 mW audio output

Built-in High Sensitivity 66ch GPS Antenna

1200/9600 bps APRS® Data communication

Micro SD card slot

High-resolution band scope with fast display of up to 71 channels

Standard configuration includes high-capacity Lithium-Ion battery good for 12 hours of continuous operation

Battery Operating Time (Approximately)

Bar	slocM*b	FNB-701L1	\$8F-14L1	Baltury Tray FBA-35(0.8W)	
144MHz	Analog Mode	8 hours	12 hours	14 hours	
1947/11-12	Digital Mode	5 hours	10 мадея	12 hours	
44.44.411	Analog Mode	5.5 hours	11 hours	13 hours	
4309MHz	Digital Mode	4,5 hours	9 hours	13 hours	

* Duty Cycle based on Tx R sec. Rx R sec. Standby 48 sec. (Tx Power 5 Walts, Rx audio output 10%THD, Ballery same 1:5, Monoband receive, and GPS function off,)

* Operating times may vary depending on operating conditions.

Lithjum Ion uthlum ion AC Artantes Speaker Microphone Speaker A Microphone 3x"AA*Cell Earpiece Battery Pack Battery Pack SAD-188* with Snaoshol pamor Microphone VOX Headset (1100 mAh) (2200 mAh) AC Adapte Rapid Charger Battery Tray MH-34848 SSM-63A FNB-101LI SBR-14LI PA-48B/C/F/U2 SAD-16H2 MH-85A110 SSM-57A **CT-44 GD-41** FBA-39 FT20 FTIXD

¹ US version only "2"B": for 120 VAC, "G": for 220-240 VAC, "F": for 220 VAC, "U": for 220-240 VAC w/BF plug, "H": for 220-240 VAC w/Australian plug.



C4FM Digital / FM **Exciting Amateur Digital Transceiver**

C4FM/FM 144/430 MHz DUAL BAND 5W DIGITAL TRANSCEIVER



(2200 mAh Lithium Ion Battery SBR-14LI, Battery charger PA-48/SAD-18B(US version) and PC connection Cable included)



Enhanced Digital Group ID Feature

Using the C4FM digital mode, a Digital-Group-ID can be set by all the members of a group and then communications can be directed specifically to the group. Also, the GM function automatically alerts the user when group members are within communication range, and displays their distance and direction on the screen.

Digital Group ID Operation



Digital Group ID Sat up



Durt of range Durlance

Snapshot Function (Image Data Transmission)

Simply connect an MH-85A11U (option) speaker microphone with camera. Press the microphone shutter button to easily take snapshots, and then send them to other C4FM digital transceivers.





Smart Navigation Function

Real Time Navigation

Check station location relationships at any time with the Real Time Navigation Function.

Distance to other station



Displays direction

Backtrack Function

With the simple touch of a button you can start navigating to your departure point or any location previously saved in the memory.

Distance to saved location



Saved location (★, L1 or L2)

Equipped with micro SD

card slot

(micro SD card not included



Tough waterproof design equivalent to IPX5(water-jet-resistant)

You will be safe using this transceiver in the field when sudden changes in weather may cause it to become wel with rain or splashed with water,

Built-in Improved 66ch GPS with antenna in tha top section of the unit



Battery Operating Time (Approximately)

Band-Mode		FNB-10%	\$8R-14U	Baltery Tray FBA-39(0.644	
1400	eboM galanA	5 hours	50 hours	15.5 hours	
144MHz	Digital Mode	4 hours	8 hours	17 hours	
rnor = i	Analog Mode	45 hours	9 hours		
430MHz	Digital Mode	3.6 hours	7.2 hours	10.5 hours	

* Duty Cycle based on Tx 6 sec., Rx 6 sec., Standby 48 sec. (Tx Power 5 Watts, Rx audio output 10% IHD, Battery says 1.5, Monoband receive, and GPS function off.)

Operating times may vary depending on operating conditions

	OPTIONS										
	0	9	19	2	9	1		Carlo Carlo	40	4	
	PC Connection Cable (USB)	PC Connection Cable [Daub9]	Date Caple	Data Cable (2.5¢)	Clanina Calva	DC Cable	DC Cable with Cigarelle Lighter Pag.	BNC-to-SMA	Soft Case	Soft Case	Belt Clip
	SCU-19		CT-170	CT-176	CT-168	E-DC-6	SDD-13	CN-3	SHC-24	CSC-97	SHB-13
TZD											
TIXD	•		•	•		•		•	1		•



An Outstanding Choice Sophisticated Dual Band Digital Transceiver

C4FM/FM 144/430MHz Dual Band Digital Transceiver

FT-70D

FT-70DR: US, Asia and Australia FT-70DE: Europe



(7.4V 1800mAh Lithium Ion Battery SBR-24LI, Battery Charger SAD-18B (US), SAD-11 (Europe, Asia, Australia), USB Cable and Belt Clip included)

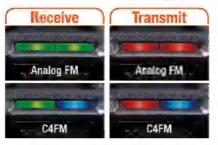
System Fusion Compatible C4FM Digital provides Excellent Audio Quality

Both conventional FM operation, and the advanced Yaesu C4FM Digital Mode are available. C4FM has better BER (Bit Error Rate) characteristics than other Digital modulation systems, and permits stable communications. C4FM digital modulation delivers exceptional audio quality.

FM Friendly Digital Operation with AMS and Large Multi-Color LED Mode Indicator

Conventional FM users and Digital C4FM users can communicate through the magic of AMS (Automatic Mode Select). AMS automatically recognizes the received signal as C4FM Digital or conventional FM, and sets the transceiver to the appropriate

operating mode. The AMS function enables hassle-free operation by removing the necessity of manually switching between modes. The MODE indicator LEDs show the transmit/Receive mode at a glance



Multi-colored LED Mode-Indicator

Sophisticated Digital-Group-ID Operation

Using the C4FM digital mode, a Digital-Group-ID can easily be set by each group member to facilitate communications between the specific group participants. The Group Monitor (GM) function automatically alerts the users when group members are within communication range.



Digital-Group-ID

LOUD 700mW Audio Output

Loud, clear, crisp audio is delivered by 700mW of audio power, and the large 32mm front speaker.

Huge 1,105 Channel Memory

The FT-70D provides maximum operating efficiency and convenience with a wide variety of memory resources, including 900 "regular" memories, six "Home" channels for favorite frequencies, 99 for Skip search memories, and 50 pairs of "Programmable Memory Scan" memories.

Useful Features

- · Rugged IP54 Rating (Dust & Water protection) Construction
- Wide Band Receive Coverage 108 579,995MHz
- Versatlle Scanning Capabilities; (Programmed VFO Scan, Memory Scan, Priority Channel Scan)
- WX Channels with "Severe Weather" Alert (US version)
- . 7.4V 1,800mAh Lithium Ion Battery pack (SBR-24LI) Included
- · Equipped with External DC Jack for DC Supply and Battery Charge
- Equipped with Mini USB port for Convenient Memory Management and Software updates
- CTCSS/DCS Operation
- RF Squelch
- · Automatic Power Off (APO) Feature
- . Transmitter Time Out Timer (TOT)

BATTERY OPERATING TIME (Approximately)

S.Bard	Coording Time (385-34Lb)
144 MHz	8 hours
430 MHz	7 hours

* 5W/ Tx 6 sec. : Rx 6 sec. : Standby 48 sec. Duty cycle (Operating time may vary depending on operating conditions)



^{*1} US version only *2 C; for 220-240 VAC, U; for 220-240 VAC w / BF plug, H; for Australian version. *3 The same as the supplied accessory



Equipped with advanced touch panel operation and full-color TFT large-scale display

C4FM/FM 144/430 MHz DUAL BAND 50W DIGITAL TRANSCEIVER

FTM-400XD

FTM-400XDR:US, Asia and Australia FTM-400XDE:Europe

(DTMF Microphone MH-48A6JA, Mounting Bracket, Bracket for Controller, Control Cable 10 ft (3m), PC connection Cable SCU-20, Stereo Monaural Plug and DC Power Cable included)



AMS (Automatic Mode Select)

The Automatic Mode Select (AMS) function Instantly detects the received signal mode.

- V/D mode (Voice/Data Simultaneous Communication Mode)
- Voice FR mode
 (Voice Fuil Rate Mode)
- Data FR mode (High Speed Data Communication Mode)

Analog FM mode



Snapshot Function (Image Data Transmission)

Simply connect the optional MH- 85A11U microphone with camera. Press the microphone shutter button to take snapshots, and easily send them to other C4FM digital transceivers.

* micro \$D card is required by the snapshot function.

3.5-inch full color touch panel operation

Icon symbols, multi-function key display and pop-up messages are all displayed in high-resolution color thanks to the full-color, high luminance TFT liquid crystal screen. The settings and status of the wireless devices are displayed in an easy-to-read format. You can perform various function operations simply and easily by gently touching the screen.



Band Scope Screen



Digital Group Monitor Screen



Screen



Smart Navigation Screen



APRS® Screen



Equipped with micro SD Card Slot Built-in Improved 66ch GPS with Antenna

(milero SD card not included)

Data communication Terminal micro SD card stol

Front side of the Radio Unit



Rear side of the Controller





A digital mobile transceiver for a new age, with a wide variety of mobile operations made possible through advanced C4FM technology

C4FM/FM 144/430 MHz DUAL BAND 50W DIGITAL TRANSCEIVER

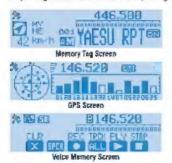
FTM-100DE:Europe



(DTMF Microphone MH-48A6JA, Mounting Bracket, Bracket for Front panel, Control Cable 10 ft (3m), PC connection Cable SCU-20, Stereo Monaural Plug and DC Power Cable included)

An easy-to-read graphical interface via a full dot-matrix display

The full 160 x 40 dot-matrix display reveals dedicated screens and icons so that you can quickly recognize each of a variety of features. Also, the white-LED backlight provides ample brightness and contrast for improving visibility.



A large BUSY/TX indicator that provides communication modes in different colors





Support for Sophisticated Functions of C4FM Digital

Digital GM Function (Digital Group Monitor Function)

The GM function automatically alerts the user when group members are within communication range. The distance, direction and call signs of the received GM stations are displayed on the screen.





Image Data Transmission*

Snapshols received from other stations, or images downloaded from the WIRES-X News Station, are stored on a high-capacity microSD card. Image data stored on a microSD can be viewed and edited using a personal computer.

The optional MH-85A1TU Gamera Speaker Microphone cannot be connected.

Smart Navigation Function

Real-time navigation

Digital mode transmits the location and station information data simultaneously with the digitized audio signal. You can view the distance, direction and call sign of received signals in real time while communicating in the Yaesu C4FM digital mode,

The FTM-100DR/DE supports WIRES-X

You can connect the FTM-100DR/DE to WIRES-X node stations and easily enjoy long-distance communications over VHF/UHF bands via the Internet. Furthermore, you can connect the FTM-100DR/DE to the optional HRI-200 WIRES-X Internet Linking Kit to quickly establish a WIRES-X node station. The FTM-100DR/DE is ideally suited for use in node stations, and the display backlight can be completely turned off.



A variety of features that ensures ease of use

- 50 W of power output sufficient for communication. on the VHF/UHF bands
- 1200/9600bps APRS® Data communication
- · microSD card slot
- · Built in high sensitivity 66 channel GPS antenna.
- · GPS logging capability
- · High sensitivity and full-fledged wideband reception
- Dual Watch Function
- Powerful 3W speaker output. 8W output for optional MLS-200-M10 External Speaker.

			AC Power Supply	AC Power Supply	Desktop Gooling	AC Adapter for	High-Power External	CT-165 MDINTO pin to Daub9
	03	Q			n = p	63		Date Celois CT-163 scinno pinte MONE pri+ Bestel CT-164 MONTO pin to MONE pin.
FTM-12000/32070	•	•						
FTM-100D	•	•	•	•	•	•	•	•
	DTMF Microphone MH-48asia	Nomai Microphone MH-42csJ	Bluetooth® Adapter Unit BSI-2	High-Power External Speaker MLS-200-M10	Voice Guide Unit FVS-2	Viscum Cup Mount Bracket for Controller MMB-98	PC Connection Cable SCU-20	Separation Cable 20 ft (6m) CT-162

[&]quot;I"B": for 120 VAC, "C": for 220-240 VAC, "U": for 220-240 VAC, "U": for 220-240 VAC w/JK plug, "H": for 220-240 VAC w/Austrellan plug. "2 US and Asian versions only "3 US version only

FTM-32000/32070

Heavy Duty C4FM/FM High Power Mobile

144MHz 65W High Power Mobile



C4FM/FM 144 MHz SINGLE BAND 65W DIGITAL TRANSCEIVER

FTM-3200DR: US. Asia and Australia FTM-3200DE; Europe

(DTMF Microphone MH-48A6JA, USB Cable, Mounting Bracket and DC Power Cable included)

55W High Power Mobile

430MHz

- System Fusion Compatible
- Genuine High Output Power with FACC: Funnel Air-Convection Conductor (Wind Tunnel)
- Loud Audio output with 3 Watts 35 x 58mm front speaker
- Advanced Digital C4FM operation
- FM hospitable operation with AMS (Automatic Mode Select)
- Large LED Mode indicator for uncomplicated operation

Stable High Power Output with FACC

The FACC (Funnel Air-Convection Conductor) Wind Tunnel, gathers cool air through the wide open front air intake and directs it to the final amplifier heat sink, and out the rear cooling fan. This efficient cooling system ensures stable output power for continuous long-distance communications.



FACC: Funnel Air-Convection Conductor

Loud Audio with 3W Front Speaker

The front facing speaker provides 3 watts of loud audio, The FTM-3200D/FTM-3207D speaker audio has been tuned for even better sound quality.



3W 35x58mm Front Speaker

The FTM-3200D/FTM-3207D operates C4FM Digital and Conventional FM modes

C4FM Digital mode is available for FTM-3200D and FTM-3207D. The C4FM digital modulation provides exceptional audio quality.

Enhanced Digital Group ID

Using the C4FM digital mode, a Digital-Group-ID can easily be set by each group member to facilitate communications between the specific group participants. The Group Monitor (GM)function automatically alerts the users when group members are within communication range.

AMS with Multi-colored LED Mode-Indicator for Easy Operation

FM friendly digital operation is made possible by AMS (Automatic Mode Select)

AMS automatically recognizes the received signal as C4FM Digital or conventional FM, and switches the receiver to the appropriate mode. The AMS function enables hassle-free operation by removing the need to manually switch between modes. The MODE indicator shows the Transmit/Receive mode at a glance,





Mode Indicator

C4FM/FM 430MHz SINGLE BAND 55W DIGITAL TRANSCEIVER

FTM-3207DR: US, Asia and Australia FTM-3207DE: Europe

(DTMF Microphone MH-48A6JA, USB Cable, Mounting Bracket and DC Power Cable included)

Features

- 220 Memory channels with 8 alpha-numeric characters
- User-Programmable Microphone Keys (4 keys)
- 126 DSQ (Digital Squelch Code) signaling feature
- Memory-Only Mode

Convenient and easy-to-use digital functions, advanced VolP wireless WIRES-X

AMATEUR RADIO INTERNET LINKING KIT



USB Cable CT-174 (MDIN 10 pin to MDIN 10 pin), and Data Cable CT-175 (MDIN 10 pin to MDIN 6 pin) included



HRI-200 Features

- Available C4FM digital communication
- High quality voice communication by using C4FM digital
- Advanced features enabled by C4FM digital functions



YAESU DR-2X is a C4FM digital/Conventional FM dual mode and dual-Receive capable repeater that covers the VHF and UHF amateur radio bands. DR-2X incorporates the use of conventional FM communication integrated with the C4FM digital communication through its unique AMS capability.

144/430MHz Dual Band Dual Receive Heavy Duty C4FM/FM Digital Repeater







DR-2XE:Europe and Australia

Supplied Accessories: AC cable (US, Asia only), DC cable, PC connection cable SCU-20, Rubber Feet (4)

DR-2X Features

- Modulation Modes: Conventional FM, C4FM Digital
- AMS (Automatic Mode Select) function automatically recognizes the received signal as C4FM digital or conventional FM signal
- 3.5-inch Full Color Touch panel Operation
- Extremely reliable, high RF Output Power: 50W / 20W / 5W
- Emergency Operation: Supported by auto-switched backup battery power operation (US and Asian versions)
- Front panel microphone connector is provided for repeater transmitter testing and enables base station operation
- Advanced Operation: The rear panel Control I/O port permits connecting with the "S-COM 7330" repeater controller (Control up to three (3) DR-2X units)

DR-2X Exclusive Features:

- Dual Receive Operation
- Improved "News Station" Feature permits sharing the voice and text messages to members
- Digital-Group-ID (DG-ID) Feature supports easy Groupings Set-up and Comfortable Operation
- Stable High Power Output with Large Heat sink
- Commercial grade components for long-term reliable operation
- IMRS (Internet-linked Multi-site Repeater System) function for simple expanded area coverage via the Internet (Optional)

C4FM provides Excellent Audio Quality and Reliable Communication

C4FM modulation has better BER (Bit Error Rate) characteristics when compared to other Digital modulation systems, and guarantees reliable Communication. The YAESU C4FM digital clear voice technology uses a 12.5 kHz bandwidth which permits high quality voice communication.



FM Friendly Digital with AMS (Automatic Mode Select)

System Fusion enables interconnection between all users, even with different modes. This is made possible in System Fusion by AMS. The AMS function automatically recognizes the signal as a C4FM digital or a conventional FM signal, then the DR-2X retransmits the signal in the preset communication mode.

Dual Receive Feature provides Flexible Operation

The unique simultaneous Dual Receive Repeater DR-2X allows the control operator to assign an additional frequency for controlling the repeater, transmitting emergency messages, or simply a second up-link frequency. The control operator may also assign separate Downlink frequencies according to the Up-link frequencies.



AMS Digital Repeater



Dual Receive image

Voice

DG-15499

🚰 Available 👫 Not Available

Enhanced Digita Group ID Feature

The revolutionary Digital Group ID feature a lows tracking multiple communications resources quickly and efficiently by displaying the telemetry and signal strength information of the members that share the same Digital Group dentification number.

DG-ID (Digital Group Identification)

A Group ID of 0 to 99 can be assigned to operators that participate in group communications

DP-ID (Digital Personal Identification)

A unique ID can be assigned to each radio for individual operator identification.

MRS (Internet-Inked Multi-site Repeater System, for Wide Coverage Operation (Options)

The MRS (Internet Ilinked Multi-site Repeater System) allows the repeater operator to link multiple repeaters over a Wide Area Network (WAN) or allocal area-network (LAN) Because of the reliability shortcomings inherent with WAN (Wide Area Network) connections, such as the Internet the new DR 2X incorporates direct connectivity between repeaters, permitting a variety of networking environments, and providing high quality Digital communication even when "All Else Fals." The Repeater activation can be controlled by Digital Group Identification number (DG ID/DP ID)

* Requires optional JAN unit (LAN-01A;

Digital Group ID Operation Image Transmit with DG-ID*01* Available DG-ID*01* DG-ID*01* DG-ID*01* RPT3

DR-2X

Voice

Communication

IMRS(Internet-linked Multi-site Repeater System) Image

internet



News Station Image

Improved "News Station" Feature

Groups or individuals can quickly store and retrieve digital audio. The users can then access the messages on demand, any time of the day

Requires optional _AN unit (LAN 01A)

User Friendly Set up (3.5 inch Full Color Touch Panel Display)



Setup screen



G-10"#

DR-2X

DG-ID*99*

Frequency setting screen



DR-2X

CTCSS setting screen

Advanced Operation

The rear panel Control i/O port is connectable to the "S-CDM 7330" repeater controller can manage up to three (3) DR-2X units, providing control of the programmable beep the timer access mode, and other features



Other Features

- Internal AC power supply (US. Asia)
- 19" Rack Mount Capable
- High Stability ±2 5ppm TCXO
- . DSQ (Digital Squeich Code) Signaling
- CTCSS and DCS Signaling
- ID announcement (Voice Mode Requires FVS-2)
- · Base Station Operation
- TOT (Time Out Timer)
- Firmware Updates



YAESU DR-1X is a C4FM digital/Conventional FM dual mode repeater covers the VHF and UHF amateur radio bands. Replacing your conventional FM repeater with the DR-1X will provide continued use of FM communication and enables intercommunication between members using the different modes through the unique AMS feature.

144/430 MHz Dual Band C4FM/FM Digital Repeater





DR-1X
DR-1X:US and Asia
DR-1XE:Europe and Australia

Supplied Accessories AC cable (U.S. Asia only). DC cable, PC connection cable SCU-20. Rubber Feet (4,

DR-1X Features

- Modulation Modes: Conventional FM, C4FM Digital
- AMS (Automatic Mode Select) function automatically recognizes the received signal as a C4FM digital or a conventional FM signal
- 3.5-inch Full Color Touch panel Operation
- . Extremely reliable, high RF Output Power: 50W / 20W / 5W
- Emergency Operation: Supports auto-switched backup battery power operation (US and Asian versions)
- Front panel microphone connector is provided for repeater transmitter testing and to enable base station operation
- Advanced Operation: The rear panel Control I/O port permits connecting with the "S-COM 7330" repeater controller (Control up to three (3) DR-1X units)

C4FM provides Excellent Audio Quality and Reliable Communication

C4FM modulation has better BER (Bit Error Rate) characteristics when compared to other Digital modulation systems, and guarantees reliable Communication. The YAESU C4FM digital clear voice technology uses a 12.5 kHz bandwidth which permits high quality voice communication.

FM friendly Digita with AMS (Automatic Mode Select)

System Fusion enables interconnection between all users with different modes. This is made possible in System Fusion by AMS. The AMS function automatically recognizes the signal as a C4FM digital or a conventional FM signal, then the DR-1X retransmits the signal in the preset communication mode.

User Friendly Set-up 3.5-inch Full Color Touch Pane Display

Settings and adjustments are all displayed in High-resolution on the full color TFT I duid crystal screen. The settings and status are displayed in an easy to understand format.

You can perform various operations simply and easily by touching on the screen



Sotup screen



Frequency setting screen



CTCSS setting screen

Other Features

- Interna: AC power supply (US. Asia)
 19" Rack Mount capable
- High Stability ±2 5ppm TCXO
- DSQ (Digital Squeich Code) Signaling
- · CTCSS and DCS Signaling
- ID announcement (Voice Mode Requires FVS-2)
- Base Station Operation
 TOT (Time Out Timer)
- Firmware Updates





GPS/APRS® Handheid Triple Band Transceiver

50/144/430 MHz (220MHz)
TRIPLE BAND 5W FM TRANSCEIVER
(50MHz AM: 1W, 220MHz FM; 1.5W (US version only))

VX-8DR,US, Asia and Australia VX-8DE:Europe

(7.4V 1100mAh Lith um on battery FNB-101Ll and battery charger PA-48 / PA-44 (European version) / SAD-11 B US version, / SAD-16H (Australian version) included

Heavy Duty, Tough and Rugged, ready for outdoors field operation

Waterproof/Submersible IPX7 rated: 3ft {1 m; for 30 minutes. The tough compact case combines a rugged die-cast chassis with the clean and tough polycarbonate resin front panel, its high shock proof versatility will allow operation of the radio in the toughest environments.

The arge LCD display provides clear and easy to-read information

The large LCD Display shows everything needed for advanced operations, including the main and subband frequencies operating modes and S-meters.

Optional GPS Operation

The optional GPS Receiver Antenna Unit (FGPS-2) provides GPS data. Your exact current position moving speed a trude, etc. may be displayed and transmitted on APRS.

Additional Features

- Real dual Ham Band Operation (V+V / □+□ / V+U)
- Wide Band Receive Capability (504kHz 999.9MHz)
- Bluetooth® Capabilities
 [Optional Bluetooth unit required]
- APRS® 1200/9600 bps data communication
- Huge 1.830 memory channel management capability
- Emergency Automatic ID system (EAI).
- Origina, Yaesu, "Auto-Range Transponder System" (ARTS)

Battery Operating Time (Approximately)
IVX 8DR/VX 8DE on one band with no optional tems,

Constant Band	Battery Life (Approx.)							
Operating Bend	₽NB-101Lb	SBR-14L/4	#BW-39					
50 MHz	5,5 hours	11 Иоща	20 hours					
144 MHz	5,0 hours	10 hours	17 hours					
222 MHZ (JSA version)	6.0 Hours	12 hours	20 hours					
430 MHz	6,0 hours	10 Hours	18 frours					
Brhaddess Bend	13 hours	26 hours	20 hours					

- Reference only. May vary depending on environmental temperature, humidity, etc.
- temperature, humidity, etc. *TX (5W) 6sec_FX 6sec_ and squalched 48sec.



Ultra-rugged, Submersible Dual Band Transceiver

144/430 MHz (220MHz) DUAL BAND 5W FM TRANSCEIVER (220MHz FM: 1 5W (US version Only))

VX-6 VX-6R.US, Asia and Australia VX-6E:Europe

(7.4V 1250mAh* Lithium Ion battery FNB-80L and battery charger PA-48 SAD- 1 BRUS version; SAD-16H;Australian version; included) * Indicated Battery capacity based on EU DIRECTIVE 2006/96/EC

Outdoor ready Features including Waterproof Rating

Compact Polycarbonate Resin and Aluminum Die-Cast Case with Solid Waterproofing Seal

The \sqrt{X} -6 is rated to IPX7 specifications for submersion (up to 30 minutes at a depth of up to three feet)

One Touch Stored Frequencies Access

The VX 6 adopts a one-touch DMR (Direct Memory Recall system that operates just like your car stereo memory

Wide Band Receiver Coverage

In addition to full operation on the 144 and 430MHz Amateur bands, the VX-6 provides a wide range of monitoring excitement, thanks to the incredible receiver frequency coverage of 504kHz to 998 99MHz

Additional Features

- · Emergency Automatic ID system (EAI)
- Channel counter function.
- Smart Search
- RF Squeich
- Automatic Repeater Shiff (ARS)

Power Output/Power Source Chart (Approximately)

	HIGH	LOW3	_O\\2	LOW1
FN8-80U or EXT DC 1710 MHz USA Version	5W4 rt.5W7	25 W (0.0 W)	1.0 1/V (0.5 W)	0.05 vV (0.2 V/)
FBA-23 2 "AA" Alkalines	0.300		0.05₩	

Battery Operating Time (Approximately)

Band	FNB-80L)	Battery Case		
144 MHz	7 hours	6.5 hours		
430 MHz	6 h	OUTS		
Receive Only	151	tours .		

Note: Deerating times may vary dispending on operating conditions, and are based on a duty evide of 6 seconds of transmission at 5 Watts 6 seconds of reception at 50% audio level and 48 seconds of slandby operation.

	All In			entire inter-	<u> </u>		981	ION#				معادرة المستالين		
	Compac Society	Ridmini licean	"Autocran' Speaker	Earpsos	Johnweight.	Barcherk			GPS Arleym	Drintram Batury Fack	užžium-on Ballen	if in an Aillen	2× AA Cell	15
	Microphone	Microphane	Моское МН-74 47 А	Microphore	√0x Headset SSM-64A	Pressure Sensor SU-1	Burset/Asapta and BU-2		Adapter for PGPS/2			Pack (2200 mAh)	Plattery Tray	514/0/H#1010 FBA-39
VX-8D			•				•	•	•			•	_	•
VX-6				•	•	•							•	
	Flapid Charger CB-15A			AC Adapter	Bell Cho	Microphone Adapter CT-91	Microphone Adapter CT-131	Cloving Cable GT-134	Capatelle spheribles	Dr. Carde Pkg and Wire Chin E+DC-6			Soff virty Lasse CSC-93	
VX-BD	OD 1001								4			000 01	•	1
VX-6	•		•			•	-		•			•	_	

[&]quot; 'B' for 20 vAC "C' for 220-240 vAC "F" for 220 vAC, "U" for 220-240 vAC w/BF plug, "H" for 220-240 vAC w/Apstralian plug, *2 US only "3 Europe only

High Performance Commercial Grade Specifications



144/430 MHz DUAL BAND 5W FM TRANSCEIVER

FT-65 FT-65R:US and Asía, FT-65E:Europe

(7.4 V 1950mAh Linon battery SBR-25 Lin, Battery Charger SBH-22, AC Adapter SAD-20 and Bert Clip included)



144 MHz SINGLE BAND 5W FM TRANSCEIVER

FT-25 FT-25R:US and Asia, FT-25E:Europe

(7.4 V 1950mAhon battery SBR-25..., Battery Charger SBH-22, AC Adapter SAD-20 and Bert Clip included)

- Commercial Grade Specifications: IP54/MIL-STD 810 C, D and E
- 1 Watt Loud and Clear Audio
- Ultra Compact Design: W 2.1" x H 4.1" x D 1.2" (52.5 x 104.5 x 31 mm)
- High Power 5 Watts Output and selectable setting 5W/2,5W/0,5W
- QRK (Quick Recall Key) for Easy Operation
- Newly designed large white LED Flashlight for Emergency Signaling

Commercial Grade Specifications

FT-65 and FT-25 are ruggedly constructed to meet commercial grade specifications (IP54 Rating for Dust and Water protection MIL STD-810C D and E). The tough compact case combines a rugged die-case chassis with the polycarbonate front paner its high shock proof versatility will allow you to operate the radio in the toughest environments.

ULTRA Compact Design

Rugged construction in an ultra-compact body, measuring \(\text{V} 2.1" \(\text{X} \to 4.1" \(\text{X} D.1.2" \) (52.5 \(\text{X} 104.5 \(\text{X} 31 \text{mm}) \)

One Watt of Loud and Clear Audio

One Watt powerful audio output and clear audio from the 36 mm Front Speaker Loud clear crisp audio provides smooth communication even in the high hoise environment

5 Watts of Reliable High Power Output

Retrable transmitter output, full 5 Watts of power on both the 144 and 430MHz bands (FT 25 144MHz band only). from a compact Handheld transceiver. Selectable reduced Tx power settings of 2.5 Watts and 0.5 Watt are provided.

QRK (Quick Reca. Key)

Four Dedicated User Programmable Keys serve as short cut keys to favorite functions, or use the four dedicated recal Keys to quickly and easily store and recall desired frequencies.



QRX (Quick Recan Key)

Includes High Capacity Li-lon Battery

Packaged with 1 950mAh E -lon battery pack provides over 9 hours" of operal ng time. Optiona High Capacity 2,500mAh ... ion battery pack gives over 11.5 hours" of extended operating time. To ensure minimal down time the FT 65/FT 25 also comes packaged with a 3.5 Hour Rapid charger.

* (Tx) 6 sec (Rx) 6 sec (Standby) 48 sec Duty Cycle

Versatile Scanning Capabilities

Programmable VFO Scan scans all channels in the desired frequency range. Memory scan allows scanning of user selectable frequencies. Priority Channel Scan can be used to scan memory channels while activating one channel as a priority. Weather Alert scan alerts the user when severe weather is approaching.

PC Programmable

The FT 65 and FT 25 are capable of being programmed with memory channels and all of the advanced setup features by using the PC software and optional SCL-35 programming cable.

Useful Features

- VOX operation is available with the optional Earpiece Microphone
- Emergency Signaling—Bright white _ED Flashlight.
 Alarm and Quick HOME Channel Access
- . WX Channels with "Severe Weather" Alert (US version)
- FM Broadcast Receiver
- Transceiver to Transceiver Cloning
- Automatic Range Transponder System (ARTS)
- CTCSS/DCS Operation
- Busy Channel Lockout (BuCO)
- Automatic Power Off feature
- Transmitter Time Out Timer (TOT)



^{*1} B: for 120 VAC, C. for 220-240 VAC. u. for 220-240 VAC w/BF plug 12 The same as the supplied accessory



Reliable Dual Band Handheld

144/430MHz DUAL BAND 5W FM TRANSCEIVER

FT-60R

(7 2V 1400mAh Ni-MH battery FNB-83. Desktop Rapid Charger SBH-13(US) and battery charger PA-48 / SAD-16H Australia) included)

Wide Band Receiver Coverage

144 430MHz Dual Band Handheid with wide band reception 108-520MHz / 700-999.990MHz

Hgh Power Output, 5W

The powerful transmitter puts out a full five Watts of power on both the 144 and 430MHz bands. For longer battery life. Reduced power settings of 2 Watts and 0.5 Watt are provided

Emergency Automatic ID System

The Emergency Automatic ID (EAI) Feature can be used to search for persons who are incapacitalled in disasters, especially search and-rescue personnel who may need assistance.

Note: This EAU function shall only be used in case of emergancy or accident to support performing direction finding and recove. YAESA, shall not be responsible for any direct or indirect less or injury caused by using the EAU function.

One-Touch NOAA WX band Access *us Version

The FT-60R provides a dedicated memory bank for reception of NOAA Weather broadcasts

Usefu features

- . Over 1000 Memory Channels
- Single-Band and Memory-only Operating Modes
- Smart Search Automatic Memory Loading

Battery Operating Time(Approximately)

Bartlery	FNB-83 FBA-25A
144 MHz	9 hours*1
430 MHz	8 hours*1
Receiving	15 hours*

Note: **Duty Cycle cased on 5W PO, 6aec. *X 6sec. RX (wlaudio, and 49 sec. RX soughthed).

12 Using PNB-63, Audio volume set to 50%.



Commercial Grade Field Radio Submersible Construction

144 MHz SINGLE BAND 5W FM TRANSCEIVER

FT-270R US, Asia and Australia

(7 2V 1400mAh Ni-MH battery FNB-83, Desktop Rapid Charger SBH-13(US) and battery charger PA-48 / SAD-16HiAustralia included)

- Commercial Grade Performance
- Submersible Construction IPX7 (3ft/1m for 30 min)
- Large Backlit LCD Display for easy Operation
- 5Watts of Stable RF Power
- 800mW Loud Audio
- 200 Memory Channels
- Hands free VOX Operation with Optional SSM-64A



Ultra-compact Handheld FM Transceiver

144/430 MHz DUAL BAND FM TRANSCEIVER

VX-3R

(3.7 V 1100mAh Lithium ion battery FNB-82LI and battery charger PA-46 included)

- Ultra Compact and Light Weight (W47 x H81 x D23 mm)
- Wide Band Receiver Coverage (504kHz 999.9MHz)
- FM Broadcast Reception
- Internal Bar Antenna for AM Broadcast band
- Mechanical Dial Lock
- AF Dual function

Power Output/Power Source Chart(Approximately)

	HIGH	TOM
FNB-82L	15 W (JHF 1 W)	0.1 W
FBA-37 3 "AA" Alkelines	5 W (UHF 1 W)	0.1 W
External DV* 62.1/5	2 W 4 H/E 2 W/Y	Did ob

		-413-	-4.3			<u></u>	OPTIONS			-44	re amine		dillian-
	8	4		0:	c'	1.5h	1.50	ed:—	-	13	1	1	4
	Compect Speaker 1 Morophone MBT-34848	Campact Speaker Mccaphone MCC-57A48	Westproof Speaker screptore MH-73A48	Esrpiece 7 Mcrophone SSM-55A	Compact capel viid with Parplete SSM-57A	ughtweight √OX deadset	ughtweight VCX Headset 5SM-64A	DTRM Paging Unit FTD-7	jibumor Batuv Piek (J.7 V.1100 nAv) FHB-82LU	NAMH Battery Prick 12 v. 1400 mAhr FNB-83	6x AA*Cel Battery Tray FBA-25A	3x*AA*Cell Batter, Tray FBA-37	Rapid Charger 15 hours VAC-3708/CT
FT-60R	•				•	•				•	•		•
F3-2708		•					•	•		•			
VX-3R	•				•	•			•			•	
	Oesklas Rapu Drager (Frount) Regulas PA-18 SBH-13	Charge Oracle CD-26	An Apapter PA-488/C/F1 SAD-1691	AC Adapter	Ogwette-Lighter Plug	Pagard Wire Drivi	Yr Table with Vollage Regulator and Spartte-Lighter Plug E-BC-21	Cloring Calole CT-27	Microphone Adapter CT-44	Microphone Adapter CT-91	Adapter for use with BMF Connection CN-3	Soff why Case CSC-92	
FT-BOR					•						•		
FT-270R						•							
YX-3R							•		•				



Ruggedly-Built, High quality 29/50/144/430 MHz Quad Band FM Transceiver

29/50/144/430MHz 50W/35W (430MHz)

FT-8900R

US, Asia, Australia and Europe

(DTMF Microphone MH-48A6JA, Mounting Bracket, Separation Kit YSK-8900 and DC Power Cable included)

Independent Two Channe, Dual Receive and Full Duplex Operation

Operating as two radios in one, the FT-8900R may be configured in a number of ways. For example, it can be set up on the "left" side for operation on 29-50, 144 or 430 MHz operation while setting the "right" side to 430MHz. Or set up the left side on 29/50/144, 430 MHz, and the right side on 144MHz. The FT-8900R may also be configured for 144-144 MHz or 430-430 MHz dual receive operation—so you never miss

out on the action: The left and right sides have their own volume and Squelch controls, as well as separate Simeters so operating breferences are never compromised.



Quad Band Operation

The FT 8900R combines the "traditional" 144/430MHz local-communications concept with the exciting capability of Sporadic-E or F2 DX on the 29MHz and 50MHz bands, for nationwide or worldwide FM communications from your carl The first Amateur Radio FM mobile transceiver providing this capability the FT-8900R, will make you wonder how you ever got by without this two-band transceiver until now

High Power Output

The FT-8900R puts out a full 50 Watts of RF power on the 29/50/144MHz bands and 35 watts on the 430MHz band. To ensure thermal stability during long transmissions, a thermal sensor monitors heat sink temperature engaging the rear panel cooling tan when needed.

	Ψ		
HIGH	MID1	MID2	WOL
50W/35W(430MHz)	201/	10W	5\4

Over 800 Memory Channels

The FT 8900R provides a wide variety of memory resources, including 799 "regular" memories six "Home" channels for favorite frequencies five pairs of band edge memories, and six "Hyper Memory" memories, which store complete transceiver operating status, for maximum operating efficiency and convenience

One Touch Band Pattern HYPER MEMORY" Feature

To save valuable time while operating a transceiver with the versatility of the FT 8900R, the "Hyper Memory" feature allows the storage of a complete set of configuration data for the two operating bands. Besides the usual storage of frequency and tone data. Hyper Memory will store such setup parameters as Automatic Repeater Shift status, Packet

parameters. Scanning mode and vFO tracking, avoiding the need to change each of these functions manually on a regular basis



Built- n Dup exer

Utilizing a single antenna lack the FT 8900P's reading edge design includes a high performance duprexing system, with extensive filtering to a low cross band full duplex operation.

Cross-Band Repeat Capability

For emergency work, or to extend the range of a hand heid unit, the FT 8900R includes Cross Band Repeat capability.

Addit onal Features

- Convenient Remote-Head Mounting Capability (YSK-8900 Supplied Accessory)
- 50 Tone CTCSS/104 Tone DCS(Digital Code Squelch; Tone Systems
- Jser-Programmable Microphone Keys
- · Easy Setup for FM Satellite Operation
- 1200/9600bps Packet Capability: Connect your TNC using the optional CT 39A Packet Cable.
- RF Squeich: Opens the squeich at a user-defined S-Meter level
- · Battery Voltage Meter
- DTMF Auto-Dial Memory: 16 Memories of up to 16 tones each
- Lock Feature for Front Pane, Keys & PTT Switch. Prevents accidental transmission or frequency change.

		OPTIONS												
	Hand Microphone MH-42 csu	DTMF Microphone MH-48asu	External Speaker		Separation Kill	Separation Kit YSK-8900	Mc Extension Kil MEK-2		AC Payer Supply 73 A/FP-1023*2	(25 A)	Desktop Cooting Fan \$MB-201	AC Adapter for SMB-201 SAB-11EACAIANT		
	HIII TA. 004	Hill L. Ambooks	Inch. Inc	(ditties mes	1914-1900	1411.0000	MILLION E	cu (sebild	11-1050	11-100014	MHID-201	area respectação		
FT-8900R	•							•		•	•			
FT: 7900		•	•	•				•	•	•		•		
F7M-3100	*													
FT-2980R			•											

¹¹ US and Asian versions only 12 US version only 13 "B" for 120 VAC "C" for 220-240 VAC. "U" for 220-240 VAC w/BF plug, "H" for 220-240 VAC V/Australian plug.

Heavy-Duty FM Dual Band Mobile with Exceptionally Wide Receiver Coverage



144/430MHz 50W/45W (430MHz)

FT-7900

FT-7900R:US, Asia and Australia FT-7900E:Europe

(DTMF Microphone MH-48A6.A, Mounting Bracket, Separation Kit YSK 7800 and DC Power Cable included)

- Large Backlit LCD Display for easy operation
- Stable RF Power (50 Watts VHF / 45 Watts UHF)
- Reliable performance in harsh environments
- 1000 memory channels with 20 Memory Groups
- Yaesu Unique Power Saving Circuit Design Minimizes Vehicle Battery Drain
- Remote Front Panel Design (Separation Kit YSK-7800 : Supplied Accessory)

Features

- One-Touch Hyper Memories Feature
- 4 power output jevejs. HIGH (50/45 watts), MID2 (20 watts). MID1 (10 watts), LOW (5 watts)
- Wide Frequency Coverage
 - TX 144 146/148MHz and 430 440.450MHz RX, 108 520MHz 700 999 990MHz (Collular Blocked)
- . 50-Tone CTCSS / 104 Tone DCS Tone System
- 16 DTMF memories can store 16 digits each for quick playback of commonly used numbers
- Scanning Function VFO Scan Memory Channel Scan Programmable Memory Scan and Priority Scan
- · Smart Search Operation
- 1200 or 9600bps Packet Operation
- · ARTS (Auto-Range Transponder System)
- · Radio to Radio Cloning

Genuine 65W High Power 144MHz FM Mobile



144MHz 65W FM SINGLE BAND TRANSCEIVER

FTM-3100

FTM-3100R: US, Asia and Australia FTM-3100E, Europe

(DTMF Microphone MH-48A6JA, USB Cable, Mounting Bracket and DC Power Cable included)

- 65W Stable Output Power with FACC: Funnel Air-Convection Conductor (Wind Tunnel)
- Loud Audio output with 3W front speaker
- Large LED Mode indicator for easy operation
- 220 Memory channels with 8 alpha-numeric characters
- User-Programmable Microphone Keys (4 keys)



FACC: Funnel Air-Convection Conductor

Features

- Memory-Only Mode
- . CTCSS (50 tones) and DCS (104 codes: Encode/Decode, with split Tone and DCS Encode only capability
- Scan feature: Preferential Memory Scan: Programmable memory scan: VFO scan, Priority Channel Scanning (Duai Watch), and Weather Aiert Scan (US only).
- Separate Transmit Offset Frequency Memories ("Odd Splits")
- · RF squeich (only passes signals exceeding the programmed squeich level)
- · DTMF Auto dialer (10 channel) Operation
- Expanded receiver coverage 136-174MHz
- · Automatic Repeater Shift

The King of Mobile, 144MHz Mobile with 80W High Power Output



144MHz 80W FM SINGLE BAND TRANSCEIVER

FT-2980R

(DTMF Microphone MH-48A6/A, Mounting Bracket and DC Power Cable included)

- Massive Heatsink guarantees 80 Watts of RF Power with No Cooling Fan Needed (Four selectable power output levels are provided: 80/30/10/5 Watts)
- Loud 3 Watts of Audio Output for noisy environments
- Large 6 Digit Backlit LCD ensure excellent visibility
- Excellent Receiver Performance
- Alpha-Numeric Channel Display
- 200 Memory Channels for serious users

Features

- CTCSS and DCS Encode/Decode Built to
- · Versatile Scanning Capability
- · WX Channels with "Severe Weather" Alert (US Version)
- · Smart Search Operation
- DTMF Direct Access Microphohe Included
- Excellent Receiver Performance

- Wide/Narrow Deviation Selection
- · RF -Squelch
- · interactive Programming Menu
- Supply Voltage Display
- 4 revel Display Dimmer
- Duai Watch

Handheld Transceivers

-	mer major man man or major	CAF	M/FM Dual I	land	FM Triple Band	FM Dual /Single Band				
	A COLUMN TO SECULIAR	, de	-				7	17.1		T
ROGRAMMIN										
DMS	Windows ™ PC Programming Kill	ADMS 8	ADMS-8	ADMS 10	ADMS-VX8	ADMS-VX6	ADMS-VX3		ADMS 1,	ADMS 2
OFT CASE &		Build But	CSC-97	eue 87	C3C 43	CSC-91	CSC-82			
SHB 13	Soft Vinyi Case Belt Cip	SHC-24	626-97	SHC-27	L3L 4%	D20-91	C21-82			
CLIP-17D	Swivel Belli Cilp	_	-		-					
MICROPHONE/										
VH-3484B	Compaci Speaker Microphone	•							•	
SSM 57A	Compact Lapet Mic with Earpiece		•	•					•	
MH-67A4B	Compact Speaker Microphone					•				
MH-73A4B	Waterproof Speaker Microphore									
MH-74A7A	Waterproof Speaker Microphone									
MH-86A11J	Speaker Microphone with Snapshot camera		•							
88M-64A	Lightweight VOX (Voice-Operated) Headset					•				•
SSM-63A	Lightweight VOX (Voice-Operated) Headaet	•	•	•			•		•	
6SM-95A	Earplace Microphone					•				
SSM-512B	VOX Eurproca Microphona							•		
Bluetoeth* OP										
BU-Z	Bluetooth* Adapter Juit				_					
COS OPTIONS	CDS Aminona Init									
FQP5-2	GPS Antonna John Color to ECPS 2				•					
CT 136 Cables & Adv	GPS Antenna Adapter for FGPS-2				-					
E-DC-21	DC Cable with Voltage Regulator and Cigaratte-Lighter Plug						•			
E-DC-6	DC Cable (Plug and Wire Only)	•		•	•				•	
SDD-13	DC Cable with Ogerate-Lighter Plug	•	•	ě		•			•	•
CN-3	Adapter for use with BNE Connector	•	•			•			•	•
CT-27	Cloring Cable								•	
CT 44	Mikrophone Adapter		•	•			•		•	
CT 41	Microphone Adapter									
CT 134	Cloning Cable				•					
CT 1\$1	Microphone Adapter				•					
CT 165	Cloning Cable	•	•							
CT:168	PC Connection Cable (Daube)	•	•							
CT 470	Data Cable	•	•							
CT:176	Data Cable (2.5 p)	•	•							
SCU-19	PC Connection Cable (USS)	•						_		
SCU-35 SCU-36	Programming Cable Gloring Cable							•		
	K & BATTERY TRAY									
Battery TRAY		FBA-39(3xAA)	FBA-38(3xAA)		FBA-39(3±AA)	FBA-23(2xAA)	FBA-37(3xAA)		FBA-25A(6xAA)	CD L OLLAC
FNB 43	Mr-MH Battery Pack (7.2 v. 1400 mAh)	Low-nationaria	ran-sayawwy		LINA-09/OTHAN	LDU-Talevavd	. mur. al famini		L DATE TO A HANDER	- DIL-TAIN(e
FNB-BOL	Lithium-ton Bathery Peck (7.4 V 1250 mAh)**					•			_	_
FNB-52L	Lithtum-ion Baltury Pack (3.7 Y. 1100 mAh)					_	•			
FNB-101L	Lithium-jon Balbary Pack (7A V. 1100 mAh)	•	•		•					
SBR-14L	Lithium-ton Bastony Pack 7.2 v. 2206 mAh)	•			•					
SBR-24L	Lithium-ton Battery Pack (7.4 V 1800 mAh)			•						
SBR-25L	Lithium-ion Baltery Pack (7.4 V. 1950 mAh)							•		
SBR-26L,	Lithtum-ion Battery Pitck (7.4 V. 2500 mAh)							•		
BATTERY CHA									_	
CD-15A	Regist Charger (2.5 hours)					•				_
CD-28	Charger Cradle	_			_					•
CD-41	Rapid Charger	•	•		•				•	•
8BH-13 8BH-22	Desktop Rapid Charger (4 hours) Requires PA-48 Repld Charger							•	_	_
SBH-22	Repid Charger			•				-		
AC 370B/C"	Repld Charger (1.5 hours)			-					•	
A 44C/U"	AC, Adapter				•					
PA-46B/C/U/H ²	•				-		•			
A-48B/C/F/L7						•			•	•
BAD-16H*2	AC Adapter	•							•	•
AD-119/C/U/HP					•	•				
SAD-1883	AC Adapter	•	•	•						
SAD-208/C/U1	AC Adapter							•		
THERS										
W-1	Berometric Pressure Sensor									
										•

^{*1} Indicated Battery Capacity based on EU DIRECTIVE 2006/66/EC *2 *B" for 120 vAC, *C" for 220-240 vAC *T" for 220 vAC *U" for 220-240 vAC w/BF plug, "H" for 220-240 vAC w/Australian plug.
*3 European version only *4 Us version only

Mobile Transceivers

	The same of the same of	CAFRIVEM	Dual Band	CALMITCH.	Cools Rend	FM Quant Band		The Mines	
		FTM: 400XD	FTM-1000	FTM-32000	F(M=42070	FT-890WR	FT 7800	FTM-3100	
MICROPHONES/SP	EAKER								
MH-42C8J	Hand Microphore	•	•	•	•	•	•	•	•
ALBASE-HIM	DTMF Microphone	•	•	•	•	•	•	•	•
MH-85A11),I	Microphone with Snapshot comers.	•							
MILS: 100	High-Fower External Special			•	•	•	•	•	•
MLS-200-M10	High-Power External Speaker	•	•						
ERACKET									
MMB-60	Quick Release Mobile Mounting Bricket					•	•		
MMB-98	Yazwon Cup Mount Brazeost for Controller Front panel	•	•						
CABLES									
YSK 8800	Septration Kil					•			
YSK 7800	Separation Kri						•		
MEK-2	MIC Extension KR	•	•			•	•		
CT 39A	Packet Interface Cable					•	•		
CT 182	Separation Cable 2011 (6m)	•	•						
CT 163.	Duta Cable (NICHA10 pm to NICHA5 pm + Crube)	•	•						
CT 164	Date Cable (MIDIN10 pin to MDIN6 pin)	•	•						
ÇT 185	Data Cable (MDIN10 per to Osub9)	•	•						
CT 186	Cloning Cable	•	•						
ÇT 187	Data Cable (MDIN10 per to Open)	•	•						
SGU-20	PC Connection Cable	•	•						
8GU-23	Microphoné Extension Cable for MH-854*10	•							
PROGRAMMING K	IT								
ADMS	Windows ^{mi} PC Programming Kill.	ADMS-7	ADMS 9			ADMS-2H	ABMS-7900		ADMS-2900
OTHERS									
FP-1030A ^{*1}	AC Power Supply (75 A)	•	•	•	•	•	•	•	•
FP-1023 ^{*2}	AC Power Supply (23 A)	•	•	•	•	•	•	•	•
SMB-201	Desktop Cooling Fan	•	•			•	•		
SAD-11B/C/L/H ^{*3}	AC Adapter for SWB-20*	•	•			•	•		
8U-2	Bluetooth® Adapter Unit	•	•						
FV8-z	Volce Guide unit	•	•						

^{*1} US and Asian versions only *2 US version only *3 'B* for 20 VAC "C" for 220-240 VAC, "U" for 220-240 VAC w/8F plug, "H" for 220-240 VAC w/Australian plug

Handheld Transceivers

			CARMEN	Sain-Mari			FM THP	le Band	
	N. IYanaba	A 100 MP4 1996 1	TANK	אווא	1. Tal. 121 1		4.5	1.5	
Frequency Ranges	A fixin SandRX 0.5 8 MEL-KMR Ado 8 8 1) No. 15 Wilesday 10 76 Web His Sid Pout - 10 M 77 Web His Sid Pout - 10 M 77 Pout His Sid Web His Sid Pout - 10 M 78 Pout His Sid Web His Sid Pout - 10 M 78 Pout His Sid Web His Sid Pout - 10 M 78 Pout His Sid Web His Sid Pout - 10 M 78 Pout His Sid Web His Sid Pout - 10 M 78 Pou	A Mari Rand RX 0.5 8 A Section Radio 18 90 A Section Section 18 90 A Section Section 18 90 A Section Section 18 18 A	の外面がSans RX の方 をかたこれを含める 13 30 Mex Sid Radid 13 30 Mex Sid Radid 20 16 Mex Sid Radid 20 16 Mex Sid Radid 13 17 Mex September 13 17 September 13 17 September 13 Mex September 14 Mex September	A (Nam Band RV 15 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	유성 106 147 M+2 (차 Burel 135 174 74년 544 개부(구44) 174 272 MH2 (차 MH2 222 400 MH2 (내 H H 400 400 MH2 (대 H MH2 H A) 470 579 985 (라는 신나다	RX 103 3.74세는 YA Pami) 137 (조하는 YA Pami) 137 (조하는 YA	A Mourt Born RV O.S. IS Not on Misseld A SUPPLINE WHITE A SUPPLINE WHITE SO MIN - 100 M Js version D. TASKIN SO MAN D. TASKIN SO D. TASKI	A Many Band HX 10.5 - 8 PANE MAIN Hadde 8 - 9 Met - KW Facilit 8 - 9 Met - KW Facilit 10 - 8 Met - KW Facilit 10 - 10 Met - Met - Met - Met - Met 10 - 10 Met - Met - Met - Met 10 - 10 Met - Met - Met - Met 10 - 10 Met - Met - Met - Met 10 - 10 Met - Met - Met - Met 10 - 10 Met - Met - Met - Met 10 - 10 Met - Met - Met - Met 10 - 10 Met - Met - Met - Met 10 - 10 Met - Met - Met - Met 10 - 10 Met - Met - Met - Met 10 - 10 Met - Met - Met - Met 10 - 10 Met - Met - Met - Met 10 - 10 Met - Met - Met - Met 10 - 10 Met - Met - Met - Met 10 - 10 Met - Met - Met - Met 10 - 10 Met - Met - Met - Met 10 - 10 Met - Met - Met - Met 10 - 10 Met - Met - Met - Met 10 - 10 Met - Met - Met - Met 10 Met - Met	
	TX 44 148 MHz 480 - 450 MHz	TX. 144 145 MHz 430 440 MHz	7X- 144 146 MHz 430 -450 MHz	7½: 144 46 MHz 430 440 MHz	TX: 144 149 MHz 430 460 MHz	1/2: 144 148 MHz 430: 440 MHz	TX 50 54 MHz 144 148 MHz 222 225 MHz (US version orig) 430 450 MHz	7); SD 52 MH; 44 146 MHz 430 440 MHz	
Channal Steps	5, 6.25, 8.33 9, 10, 12,5, 15, 2	0.25.50.100 kHz	5, 6, 25, 8, 33, 9, 10, 17, 5, 15, 2	20 76, 511. TOT N/D	5 6.25, 8 13 10, 12 5, 15 20	25 50 100 lel;	5 6.25, 8 83 9, 10 -2 6, 15, 2	0 25.50 100 kHg	
Frequency Stability	±25 ppm -4°F to + 140°F	20°C to + 60°C)	±2.5 pgm -4°F to +140°F	20°C to + 60°C)	±25 apm (-4 F to +140F)	20 °C to +60 °C)	±5 ppm +14°F to + 122°F	10°0 to 50°0)	
Emission Type	F1D: F2D F3E +7\f		F1D F2D, F3E F7W	18.5.444.5	F2D F3E F7W		F1D, F2A, F2D F3E, A3E		
Supply Voltage	Norminal 2,400 Progate Groups SR-44.1 Norminal 74 v OC (Nogates Strong FSB-401.1 Operating 4 114 V DC Pregative Groups EVT D Clipick) 11-16 V OC Pregative Ground EXT D Clipick visits SDD-181		Atominal 74 V DC Negative Grou Nominal 72 V 130 (Negative Arou Operating 4 - 14 V DC (Negative & 11- 16 V DC (Negative Ground EX	ng SBR-34L) Shund EKT DC racks	Normal 14 V DC (529-24L) Operating 6 14 V Negative Ground 11 16 V Negative Ground (EXT D		Normal 4 VIC (Negative Ground Normal 72 VIC (Negative Grounding 4 14 VIC (Negative G	nd 38R-(4L)	
Curant Censumption	120 mA, Single Band Recovery 180 ma, Trail Band, Standers 80 ma, Single Band, Stander, Saver Off 110 mA, Dustliband, Stander, Saver Off 50 mA, Oud Band, Stander, Saver On "Save Ratio 1: 57 50 mA, Oud Band, Stander, Saver On "Save Ratio 1: 57 40 mM, Save Son 40 mM, Saver Market, Saver On Save Ratio 1: 57 40 mM, Saver Son 40 mM,		150 m A Single Band Percentil 220 m ft Du Lebert-Installe 100 m A Single Rand Stander Steel Off) 150 m A Single Rand Stander Steel Off) 150 m A Single Rand Stander Steel Off) 150 m A Single Rand Stander Steel 150 m A Single Rand Stander Steel 150 m A Single Rand Stander Steel Off Steel Radio 1:51 45 m A Single 45 m A Single 150 m A Si		160 m. (Roccine Ad 18) 20 ml/ (Start), Sove (10) 16 J. Te. 44: 194; 5 W/ 18 J. T. X. 420 APL; 5 W/		200m4 (Single Band Receive) 45 mV (Single Band Roser) 45 mV (Single Band Roser) 45 mV (Single Band Standay, Sever Off) 150 mV (Single Band Standay, Sever Off) 55 mV (Single Band Standay, Sever Off) 40 mV (Single Band Standay, Sever Off) 41 mV (Single Band Single Banday, Sever Off) 42 mV (Single Banday, Sever Off) 43 mV (Single Banday, Sever Off) 44 mV (Single Banday, Sever Off) 45 mV (Single Banday, Sever Off) 46 mV (Single Banday, Sever Off) 47 mV (Single Banday, Single Banday, Sever Off) 48 mV (Single Banday, Single Banday, Sever Off)		
Operating Temperature	4"Fite + 140"F 20"Cits +	- BO°C	4°F to + 140°F 20°C to +	+ 50°C	4 TF to +14 TF 20 'C t	D' 08 + ed	4"F16 + 140"F 20"C to -	+ 6D*C	
Caso Size (WxHbdD)	2 4 x 4 5' x 7 3' (62 x 1' 0	x 32 5 mm)	2 4" x 8 7" x = 3" (80 x 95 x 32 5 mm)		2 35" ± 3.85" ± 1 30" (60 ±	1 98 K 33 MM)	24' 1 57" x 0 9' (60 x 95	K 24 2 mm)	
w/o knoto & anianna & balk dip	40.00 040 050 -000	4 4	10,23 oz (290 gt with ABR- 4L & antenna		a an a a a contract of the	41 0	* 5 - 15 let -1 - 15 or	11 1	
Weight	10 93 az (310 g) with 3BR-1	14. G andmin	10.23 oz izati gi wito sek-	14E & SUOPONA	8 99 cc (255 g) with SBR 2	AL W SUMBLY	4.5 ps (240 g) with - AB 0	IL & Anionna	
RF Power Cutput	D.S.W. 684.5 U. A.A.X.3 5.O.W. 688attery Pack or EX LR 2.5W. L.2. TW. L. D. W		0.8 W 204.5 v AAx3 5.0 W 20Bettery Pack or EXT DC 4.3 2.5 W; 2 W = 0 W 327.4 9		5.0 W. (Highs 영화 4 USBN-24L 2 W. (Anddin 영 74 v. SBN-24L O S. W. (Low), 영화 7.4 Y. SBN-24L		□ W 256 1547/43 3 MHz 24.5 v AA x 3 5.0 南 554 14 c (430 名配と 247 4 v n E 27 0 C □ W 56 MHz A4 250 0 5 南 22 2 MHz 15 suby 24.5 v AA x 3 15 W 22 2 MHz 15 suby 24.5 v AA x 3 15 W 22 2 KHz 15 suby 24.4 v 3 10 C よっよ 4 W 2 2 1 MK 2 0 3 5 W 72 2 MHz 24 4 v よう 1 W 2 2 0 4 W 2 1 3 5 W 72 2 MHz 24 4 v		
Spurious Emission	At least 60 at 3 below (60 TXp) At least 50 at 0 below (60 TXp)		At least 50 dB below KB TX power HVL.s/L2] At least 50 dB below KB TX power L1]		At least 50 dB down (45 FK ps At least 40 dB down (45 FK ps		At least 50 dB below RP TX power HVL3/ At least 50 dB below RP TX power L2/L1}		
Microphone Impedance	ZKS		2167		2ltΩ		2κΩ		
Receiver									
Circuit Type	NHM AM Jouble-Convers FM AM Radio: Direct Con or 47.25 MHz "NFM, 9AM, 1	norson	AHM AM Houble-Convers FM AM Haddo Single-Con- ist 47.25 MHz (VFM, AM)	version	Double - Conversion Superhal 1st-47/25 MHz	storodyne	Fit M AM: Louble Conversion Whith rights crayersion FM AM Radio sargio Com	VOTSION	
Intermediale Frequencies	46.35 MHz (NFM, AAI), B Bi 2nd 450 kHz (NFM, AMI)	ndł.	46 35 Mary IASM, AAN B Ba 2nd: 450 KHz (AEM, AM) ist 130 KH; (AM/FM Radio	and),	2nd 450kHz		MRA MA ist 47.25 MHz (ABand) 45.35 MHz (B Band) 2 nd: 450 KHz (A Band), 45.0 KH; (B Band) WPM ist 45.0 MHz (Ad 10.7 MHz 340; MHz AM/FM Badlo 30 KHz		
Sensitivity Notes werent Noted AM Notes 10 (8.5H) NEWLYF Millione 12 (8.5 Maj) Digital Mode BER 1%	3 O pt 10 5 50 MHz AMI 0 5 pt 11 Pt 20 5 A MHz 0 pt 11 Pt 194 Pt 18 ft 18 5 pt 12 Pt 78 pt 31 A Mt, 0 pt 13 7 A Mt NF 10 Pt 16 Pt 18 A Mt NF 10 Pt 18 A MT NF 18 A MT NF 18 Pt 18 A MT NF 18	HE NEMAN ARIS SO ARIS	3.0 pt [65 35 MHz 4Mi 3.5 qt Pr 9.0 5 Mrs; 0 pt Pr 154 78 38 1M 5 pt Pr 9 78 35 1Ms; 15 pt Pr 9 78 35 1Ms; 16 pt 10 59 Ms; 16 pt 10 59 Ms; 0 pt 973 222 Ms; 0 pt 973 222 Ms; 16 pt 10 0 50 Ms; 16 pt 10 40 Ms; 15 pt 1300 40 Mhz; 16 pt 10 40 Mhz; 16 pt 10 10 Mhz; 16 pt 10 10 Mhz; 16 pt 10 0 10 Mhz; 16 pt 10 0 10 Mhz; 16 pt 17 pt 18 0 30 Mhz; 16 pt 17 pt 18 0 30 Mhz; 16 pt 17 pt 18 0 30 Mhz; 16 pt 17 pt 18 0 10 Mhz; 16 pt 17 pt 18 0 10 Mhz; 16 pt 17 pt 18 0 10 Mhz; 17 pt 18 0 10 Mhz; 18 pt 17 pt 18 0 10 Mhz; 18 pt 18 p	로는 NFA) - AM} - AM} - AM} - AM - AM	Tuy for 12 dB AINAC 174 0.5 pV for 12 dB AINAC 176 0.2 pV for 12 dB AINAC 155 0.18 pV for 12 dB AINAC (4) 0.35 pv for 12 dB AINAC (4)	O IS pv for 2 ets SINAD 197 174 MHz, N:Mi] Tuz (et 2 fls SINAD 197 174 MHz, N:Mi] Tuz (et 2 fls SINAD 198 22 MHz 제단M) O S pv for 176 SINAD 1950 400 Mer NEM 0.2 pv for 17 fls HNAD 1950 400 Mer NEM 0.3 pv for 12 fls HNAD 1970 519 995 MHz 제단MI 0.35 pv for 12 fls HNAD 1970 519 995 MHz 제단MI 0.19 pv TVP for BER 1% (Orgital mode 생대am 6 and)		AfMathy Band O 3h ph 17P 34 54 MHz, NFM) O 3h ph 17P 34 56 KBz, MH, NFM' O ph 17P 54 56 KBz, MH, NFM' O ph 17P 54 56 KBz, OB MHz NFM' 15 ph 17P 76 KBz, OB MHz NFM' 5 ph 17P 103 3' MHz AMI O 2 ph 17P 103 3' MHz AMI O 2 ph 17P 103 3' MHz AMI O 1 ph 14 AO 50 MHz NFM' O 1 ph 14 AO 50 MHz NFM' O 5 ph 17P 55 74 MHz NFM' O 5 ph 305 56 MHz NFM' O 5 ph 305 56 MHz NFM' O 15 ph 17P 540 MHz NFM' S Dph 17P (340 BBz MHz NFM) I 5 ph 17P	
Selectivity	NEM AM 2 KHZ 35 KHZ	-6 dB -60 dB)	NFM. AM 12 kHz 35 kHz	-6 dB -60 dBı	12 kHz 35 kHz - 6 mil - 6	80 AB)	NFM. AM 12 kHz 35 kHz (- 8 di	
			*** *** *** ***	1	2:0 - 9: 0 40 4 T/D	banat annaha.	200 min @ 0 % THD (@)	7.4 115	
AF Output	700 mW @ 10 % THD Inter 300 mW @ 10 % THD EXT		200 mW @ 10 % THD I@ 7 400 mW @ 10 % THO I@ 1		70:0 mW @ 10 % THD Int 300 mW @ 10 % HD Ex		408 mW @ 10 % THD %@		

Handheld Transceivers

7		FM	Dual Band			7	FM Single Bar	ıd
VX-6R	VX-6E	VX-3R	FT-65R	FT-65E	FT-60R	FT-25R	FT-25E	FT-270R
Gebrueral RX 18 - 10 MHz (MM Ramin 18 - 10 MHz (MM Ramin 18 - 10 MHz (SM Ramin 18 - 10 MHz (SM Ramin 19 - 10 MHz (SM Ramin 10 10 MHz (SM Rami	RX O5-1-8MHz PM Radist 18-30-MHz SW Radid 18-30-MHz SW Radid 19-76-MHz SID-MHz PMR PR	RX: 05-1-8 MHz (AM Radio) 18-20 MHz (SW Radio) 18-20 MHz (SW Radio) 30-99 MHz (SW Radio) 99-100-90 MHz (SW Radio) 99-100 MHz (SW Radio) 99-100 MHz (SW Radio) 19-100 MHz (SW Rad	RX 136 - 1747/Hz 400 - 480 MFs	発表 136 - 174 MHセ 450 - 480 MH年	RX 106 - 137 MHz (Air Band) 137 - 520 MHz (AM/FM) 200 - 99 MHz (PM, US version Celular Blocked)	RX 136 - 174 MHz	RX. 196 - 174 MHz	RX: 136-174 MHz
TX 144 - 146 MHz 222 - 225 MHz US version only 430 - 450 MHz	TX. 344 - 145 MHz 430 - 440 MHz	EN: 144 - 148 MHz 430 - 450 MHz	TX. 144 - 148 NA E AUS. 136 - 174 NA E Aug. 420 - 450 NA E AUS. 400 - 460 NA E AUS.	1X 144-146MHz 420-440 MHz	TX. 144 - 148 MHz 430 - 450 MHz	13X 344 - 148 M 七 (US) 138 - 174 M 七 (Ass)	TX. 144 - 146 MHz	TX 144 - 148 MHz
5, 9, 10, 12.6, 15, 20, 25, 50, 10		\$ 630 \$ 10, 17 \$ 15, 21, 25, 50, 183101\$	5, 6.75, 10, 17,5, 15, 20, 25,		5 10 19 5 16 20, 75 50 100 100	5 8.25, 10 12.5, 15, 20. 2		5 10, 17.5, 15, 70, 75, 50, 100 to
±5 ppm (+54°F to + 122°F, + F2D F3E	70°C to + 50°C)	15 pm 5145 9 + 1275, 1075 9 + 1075 F2D, F3E, F2A	±5 ppm (+14 °F to +140 °	F .=10 *G to +60 *C}	:5pm:-1475 b + 1475 -1011 b + 61701 F20, F3E	±5 ppm (+14 °F to +140 F2D, F3E	'F_+10 'C to +60 °C)	Expansion to + 1677 - 1311 to + 977 F20, F36
Nominal 7.4 V DC (Negative 6 Operating 5 - 16 V DC (EXT DC Jack) 11.0 - 16.0 V DC (EXT DC Jack)	IC (BEA)	Hammal 8,7 V DC Vargation Grounds Operating 56 - 7 V DC (ENT DC pack) 550 - 7 V DC (EXT DC pack) with Changing	F2D, F3E (fleminal: 7,4 V DC, Negative Ground) ki		Haminal 7.2 V (C Pingules Ground Quarating 6.0 - 16 V DC (EXT DC justo 13 - 16 V DC (EXT DC luck while Changing)	Nominat 7,4 V DC, Negati	ve Secund	Nominal 7.2 V DC (Negative Ground) Operating 6.0 - 16 V DC (EXT DC Jack)
150 mA (Receive) 60 mA (Standby, Saver OH) 20 mA (Standby, Saver OH) 10 mA (Standby, Saver OH) 1 mA (DN Timer Activated) 200 pA (Auto-Pewer OH) 1.5 A (TX, 14 MHz 5 W) 1.5 A (TX, 14 MHz 5 W) 1.6 A (TX, 14 MHz 5 W)		The Special Confidence of the Part of the Special Confidence of the Part of th	205 m.k (Receive) 200 m/W Output 100 m.k (Standby, Naver Off) 13 m.h (Standby, Naver Off) 4 m.k (Auto Power Off) 1.5 A (XX 44 MHz 5 W) 1.7 A (XX 430 ft) ft 5 W)		15 m/ Blastine 45 m/ Blastine 45 m/ Blastine 47 m/ Blastine 16 m/			165 mě (Reselec, 200 měr Gupu 65 mě (Stander, Sayer Oll 25.5 mě, (Stander, Sayer On) 8 mě, (Nullo Parer Oll) 1,5 k. (10, 5.0 W) 97.2 V OC
-4"F 10 + 140"F -20"C @ 4	F -20°C to + 88°C -4°F to - 145°F -29°C to + 60		-4 °F tn +14 °F , -20 °	C to + 60 °C	-4°F to + 540°F, -20°C to + 80°C	- 4 °F 10 +14 °F - 20	°C to + 60 °C	4"F to + 140"F, -20"CTe + 60"C
2.8" ± 3.5" x 1.1" (58 ± 89 ±	3.5° x 1.1° (58 x 89 x 28.5 mm) 1.9° x 3.2° x 0.9° (47 x 81 x 23 mm)		2.1" 1 4,1" 1 1,2" (52,5	x 104.5 x 31 mm)	2,3" ± 4.3" ± 1,2" (58 ± 109 ± 30 mm)	2.1° × 4.1° × 1.2° (52.1	5 x 104.5 x 31 mm/	2.4" x 4.7" x 1.3" (80 x 120 x 32 mm)
9.5 ez (270 g) with FNB+60	L) & antenna	4.5 oz (130 g) with FNB+821.1 & antonna	9,17 az (260 g) with \$8R	25U and antenna	13,05 oz (\$70 g) with FAS+83 & antenna	9,77 az (260 g) with \$91	R-25L) and entenna	13.8 oz (390 g) with FNB-83 & antenne
Transmitter		THE PERSON WHEN THE			The Table of Manager			HILL NO VO G GNOTIL
S.D W (144M30 MHz) 2,5 W (1.8 1444430 MHz) 1.0 W (2.1 1444430 MHz) 6,3 W (1.1 1444430 MHz) 1.5 W (222 MHz US version) 1.0 W (2.3 222 MHz US version) 0.5 W (1.2 1222 MHz US version) 0.5 W (1.2 1222 MHz US version) 0.5 W (1.1 1222 MHz US version)		「多年日本経会から、からのカンド特別を記 またから、他のでは、 またが、 またが、 またが、 は、 は、 は、 は、 は、 は、 は、 は、 は、 は	2.5 W (Middle) @ 7.4 V. \$BR-25L1		High 5.0 W @7.2 Y FNS-83 Mix 2.0 W @7.2 V FNS-83 Low 0.5 W @7.2 V FNS-83	5 W (High) 한 7.4 V. SBP-25LI 2.5 V (Acade) 한 7.4 V. SBP-25LI 0.5 W (Low) 한 7,4 V. SBR-25LI		High 5.0 W 697.2 V; FNB-8 54d 2.0 W 697.2 V; FNB-8 Low 0.5 W 697.2 V; FNB-8
At least 60 dB below (© TX p At least 50 dB below (© TX p	ower HVL3	Al least 60 discretes (ISTX gaven HEA) As least 50 discretes	At least 60 dB down (@ [2 At least 40 dB down (@ [2		At bust 60 di beten 69 10 accert, Agrillatio At bust 60 di beten 69 10 accert; Lore	At least 60 dB down (@ T At least 40 dB down (@ T		Al basi 68 di Seba (Al Copyan MgAlla Al basi 40 di Seba (Al Topyan Lea)
2kΩ		(N 12 power LOW or less than 1 III) Z kΩ	2kΩ		2160	2kΩ		21/0
Receiver								
NFM / AM: Bouble-Corners WFM: Triple-Conversion	ion.	NFW / AM. Dauble-Conversion W/ W. Triple-Conversion AM / EM Radio Single-Conversion	Direct-Conversion		Double-Conversion	Direct-Conversion		Jouble Conversion
5st: 47,25 MHz (NFM, AM 1 2nd: 450 kHz (NFM, AM), 1 3rd: 1 MHz (WFM)		's 4725 me piệt đặc và phinh piết, Thiệt shi Thiệt mày Đội Số the MH, đội Thế piệt Thiết MH, Thiết Thiệt		*	1st 47,25 MHz 2nd: 450 kHz			7st: 21.7 MHz 2nd: 450 kHz
0.36 µ/ TYP 130 - 54 MHz, NFM) 0.5 µ/ TYP 64 - 75 MHz, NFM) 0.5 µ/ TYP 64 - 75 MHz, NFM 0.5 µ/ TYP 64 - 75 MHz, NFM 0.5 µ/ TYP 675 - 108 MHz, NFM 10 µ/ TYP 69 - 108 MHz, NFM 10 µ/ TYP 69 - 108 MHz, NFM 10 µ/ TYP 69 - 108 MHz, NFM 0.2 µ/ T37 - 140 MHz, NFM 0.5 µ/ T40 - 150 MHz, NFM 0.5 µ/ T40 - 550 MHz,		1.0 以 [2.5 - 1.6 M · 2. M · 3.0 以 [2.5 - 1.6 M · 2. M · 3.0 以 [2.5 - 1.0 M · 2. M · 3.0 以 [2.5 - 1.6 M · 3.0	6		0.8 pt 108 - 137 Mb; AM 0.2 pt 1037 - 150 mb; Mb; 0.7 pt 1037 - 150 mb; Mb; 0.7 pt 105 - 174 mb; Mb; 0.8 pt 106 - 158 Mb; Mb; 0.8 pt 106 - 158 Mb; Mb; 0.2 pt 106 - 158 Mb; Mb; 0.2 pt 106 - 158 Mb; Mb; 0.2 pt 106 - 150 Mb; Mb; 0.2 pt 106 - 150 Mb; Mb; 0.2 pt 106 - 150 Mb; Mb; 0.5 pt 106 - 150 Mb; Mb; 0.5 pt 106 - 150 Mb; Mb; 0.5 pt 106 - 150 Mb; Mb; 0.8 pt 107 Mb; - 150 Mb; - 150 Mb; 0.8 pt 107 Mb; - 150 Mb; - 150 Mb; 0.8 pt 107 Mb; - 150 Mb; - 150 Mb; 0.8 pt 107 Mb; - 150 Mb; - 150 Mb; 0.8 pt 107 Mb; - 150 Mb; - 150 Mb; 0.8 pt 107 Mb; - 150 Mb; - 150 Mb; 0.8 pt 107 Mb; - 150 Mb; - 150 Mb; 0.8 pt 107 Mb; - 150 Mb; - 150 Mb; 0.8 pt 107 Mb; - 150 Mb; - 150 Mb; 0.8 pt 107 Mb; - 150 Mb; - 150 Mb; 0.8 pt 107 Mb; - 150 Mb; - 150 Mb; 0.8 pt 107 Mb; - 150 Mb; - 150 Mb; 0.8 pt 107 Mb; - 150 Mb; - 150 Mb; 0.8 pt 107 Mb; - 150 Mb; - 150 Mb; 0.8 pt 107 Mb; 0.8			0.2 pJ 1938 - 140 Mets, RFMJ 0.16 pV 1902 - 150 Mets, NFMG 0.2 pJ 177P (1900 - 174 Mets, NFM
1.0 MY TYP (580 - 800 MHz								
1.0 py TYP (580 - 999.990 0.5 py TYP (800 - 999.990 US version Childre Blocked NFM, AM 12 kHz / 35 kHz (6 dB / -60 dB)	U U_AU 12 kH/ 35 d2 j= d5/ =3 d5	12 kHz / 35 kHz (-6 dil) /	-60 dB)	NFM, AM 12 kHz / 35 kHz	12 KHz / 35 NHz (-6 dB	/-60 dB)	12 kHz / 35 kHz
1.0 py TYP (530 - 800 MHz 0.5 pV TYP (800 - 999.990 US version Civillar Blacked	-6 dB / -612 dB) 6 dB / -212 dB)	변설, 제작 19 kb / 35 db 6 8 / 40 db (변보:18 kb / 200 br 6 db - 35 db 50 m방 숙 10 성 THD (육 3.7 U)	12 kHz / 35 kHz (+6 di) /		NFM, AM 12 kHz / 35 kHz (-6 db / -60 db) 400 mW @ 10 % THD	12 kHz / 35 kHz (-6 dB		12 KHz / 35 kHz 1-6 dB / -60 dB} 20 mB (2 N N D B) 3 mB cd

Mobile Transceivers

		Dual Band	A STATE OF THE PARTY.		C-ALIMITERS	Single Band		
FTM-400xDR	FTM-400X0E	FTM-100DR	FTM-100DE	FTM-3200DR	FTM-3200DE	FTM-3207DR	FTM-3207DE	
+								
137 - 174 MHz 137 - 174 MHz 137 - 174 TH 2 137 - 174 - 400 MHz 174 - 400 MHz 174 - 400 - 480 MHz 400 - 480 MHz 400 - 480 MHz 400 - 480 MHz 480 - 999 99 MHz 480 - 999 99 MHz 480 - 480 MHz 4		RX: RX: T08 - T37 MHz T08 - T37 MHz T37 - T74 MHz T37 - T74 MHz T37 - T74 MHz T37 - T74 MHz T37 - 400 MHz 400 - 480 MHz 400 - 480 MHz 480 - 999.99 MHz US Version Cellular Biockyrd US Version Cellular Biockyrd T37 MHz T37 M		RX: RX: 136 - 174 MHz 136 - 174 MHz		31X: 420 - 470 Milez	RX: 420 - 470 MHz	
TX: 144 - 145 MHz 430 - 450 MHz	TX. 144 - 146 MHz 430 - 440 MHz	TX: 144 - 148 MHz 430 - 450 MHz	TX: 144 - 146 MHz 430 - 440 MHz	TX. 144 - 148 MHz	TX 144 - 146 Mntz	†X ₁ 430 - 450 MHz	1%: 430 - 440 MHz	
		5, 6,25, 6,32, 10, 12,5, 15, 20, 25, 50, 100 ke/z (6,33 kHz : Only for Alz band)		5, 4, 25, 10, 12, 5, 15, 20, 1	25, 50, 100 kHz	5, 6.25, 10, 12,5, 15, 20,	25, 50, 100 kHz	
=2.5 ppm (-4"F to + 140"F ₁ -20"C to + 60"C)		±2.5 ppm (-0"F to + 140"F,	+20°C to + 60°C)	±2.5 ppom (Dispital), ±10 ppim (Anabag) (-4°F to	4 140°F, -20°C to + 80°C)	±2.5 ppm (Digital), ±5 ppm (Aralog) (-4°F to -	+ 140°F20°C to 4 80°C)	
		Neminal 13.6 V DC, Negati Operating 11.7 - 15.8 V DC	ive Ground ; Negative Ground					
0.5 A (Recolum) 11 A (TX, 144 MHz 50 W), 12 A (TX, 430 MHz 50 W)		0.5 A (Receive) 11 A (TX, 144 MHz 50 W),	12 A (TX, 430 MHz 50 W)	0.5 A (Receive), 15 A (TX, 65 W), 10 A (30	W). 5 A (6 W)	0.5 A (Receive), 12 A (TX, 65 W), 6 A (25	₩), 4 A (6 W)	
-4°F to + 140°F, -20°C to	+ 60°C	-4°F 10 + 140°F -20°C 10	+ 60°C	-4°F 1q + 140°F, -20°C 1q	+60°C	-4°F to + 140°F, -20°C b	9 + 60°C	
Radio Unit 7.5.5" x 1.6" x 4.9" (140 x 40 x 125 mm) PWO Fan & carniscters) Centroler / 5.5" x 2.6" x 0.8" (140 x 72 x 20 mm) (WO knob & carnecters)		5.5" k 1.6" x 6.5" (140 x 45 x 164 mm) (with Front Panel, W/D Fan, knob & connectors) Front Panel / 5.5" x 1.6" x 1,2" (140 x 45 x 29 mm) (W/O knob)		Radio Unit / 61° ± 1.7° x 6.1° (154 x 43 x 155 mm) (W/O Fan & Rhob)		Radio Unit / 6.1° x 1.7° x 6.1° (154 x 43 x 165 mm) (W/O Fen & knew)		
2.64 lbs (1.2 kg) with Radio Unit, Controller, Control Cable		2.43 Rei (1.1 log) with Radio Unit, Front panel		2,66 the (1,3 kg)		2.86 lbo (1.3 kg)		
50/20/5 W		50/20/5 W		65/30/5W		55 / 25 / 5 W		
At letat 60 68 below		At Jessil 80 48 below		At least 80 dB below	At least 80 dB ballow At least 61,1 dB ballow (05 W)	At least 60 dB below	At lens160 d3 below	
2 kΩ		2kΩ		2kΩ		zkΩ		
0.2 pV (137 - 140 MHz, FM) 0.2 pV (140 - 150 MHz, FM) 0.75 pV (179 FM) - 150 MHz, FM 0.25 pV (150 - 174 MHz, FM 0.3 pV 179 (174 - 222 MHz, FM 0.3 pV 179 (174 - 222 MHz, FM 0.2 pV (420 - 470 MHz, FM 0.2 pV (420 - 470 MHz, FM 0.4 pV 179 (300 - 939, 93) 0.4 pV 179 (300 - 939, 93) 0.4 pV 179 (300 - 939, 93)	z, Digital Models C. FMH Iz. FMH d. ANO d)))) Digital Models . FMH	0.2 µV (137 - 140 MHz, FM) 0.2 µV (140 - 150 MHz, FM) 0.2 µV (150 - 150 MHz, FM) 0.25 µV (150 - 174 MHz, FM) 0.25 µV (170 - 174 MHz, FM) 0.25 µV (170 - 122 MHz, FM) 0.25 µV (170 - 120 MHz, FM) 0.2 µV (420 - 470 MHz, FM) 0.3 µV (420 - 470 MHz, FM) 0.4 µV (470 - 520 MHz, FM)	z. Digital (Mode) () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () (D.Z (V IFM Narow) Q.Z2 yV (FM Wide) D.Z2 yV (Digital)		0.2 pV (FM Narow) 0.22 pV (FM Wide) 0.19 pV (Digital)		
NFM, AM 12 kHz / 30 kHz	(-4 dB / -60 dB)	NFM. AM 12 kHz / 30 kHz	1-6 s(B / -60 dB)	12 kHz / 25 kHz(-6 dB /-6	(0 佛)	12 KHz / 28 KHz -6 dB /-4	80 dB)	
AF Output 3 배 송 4 Ω for 10 % THD #영 13.8 V) External Speaker 8 배 송 4 Ω for 10 % THD #영 13.8 V) External Speaker		3.W 争 6.Q for 10 % THD (争 13.8 V) Internal Speaker 8.W 争 4.Q for 10 % THD (争 13.8 V) External Speaker		3 W @ 4 G for 10 % 7Hb ((u B. E)	3 W Ф 4 Ω tur 10 % THD (Ф 13.8 V)		
	RX: 137 - 174 MHz 137 - 174 MHz 174 - 400 MHz 400 - 480 MHz 440 - 999, 99 MHz US Yerston Cellular Blocked 174: 144 - 145 MHz 430 - 450 MHz 430 - 450 MHz 430 - 450 MHz 25 ppm (-4°F to + 140°F Nominal 13.8 V DC Negati Denrating 11.7 - 15.8 V DC 0.5 A (Receive) 11.A (TX, 144 MHz 50 W), -4°F to + 140°F, -20°C to Radio Unit / 5.5° x 1.6° x 4. W/W Fan & connectors) Centroler / 5.5° x 2.8° x 0. (W/W knob & connectors) 2.84 lbs (1.2 kg) with Radio Centroler / 5.5° x 2.8° x 0. (W/W knob & connectors) 2.84 lbs (1.2 kg) with Radio Centroler / 6.5° x 2.8° x 0. (W/W knob & connectors) 2.84 lbs (1.2 kg) with Radio Centroler / 6.5° x 2.8° x 0. (W/W knob & connectors) 2.84 lbs (1.2 kg) with Radio Centroler / 6.5° x 2.8° x 0. (W/W knob & connectors) 0.2 μ/Y 170° (137 - 140 MHz FM) 0.3 μ/Y 177 (140 - 150 MHz FM) 0.2 μ/Y 170° (122 - 300 MHz FM) 0.2 μ/Y 170° (120 - 335 MHz) 0.3 μ/Y 170° (130 - 335 MHz) 0.4 μ/Y 170° (140 - 335 MHz) 0.5 μ/Y 170° (140 - 335 MHz) 0.7 μ/Y 170° (140 - 335 MHz) 0.8 μ/Y 170° (140 - 335 MHz) 0.9 μ	RX: 137 MHz 137 - 174 MHz 140 - 440 MHz 400 - 480 MHz 400 - 999 99 MHz US Virision Celular Blockyd 1X: 1X: 144 - 145 MHz 430 - 450 MHz 430 - 440 MHz 50 Wh 17 A (TX, 144 MHz 50 Wh) 12 A (TX, 430 MHz 50 Wh) 17 A (TX, 144 MHz 50 Wh) 12 A (TX, 430 MHz 50 Wh) 17 A (TX, 144 MHz 50 Wh) 12 A (TX, 430 MHz 50 Wh) 17 A (TX, 144 MHz 50 Wh) 12 A (TX, 430 MHz 50 Wh) 17 A (TX, 144 MHz 50 Wh) 12 A (TX, 430 MHz 50 Wh) 17 A (TX, 144 MHz 50 Wh) 12 A (TX, 430 MHz 50 Wh) 17 A (TX, 144 MHz 50 Wh) 12 A (TX, 430 MHz 50 Wh) 13 A (TX, TX, TX, TX, TX, TX, TX, TX, TX, TX,	RX 137 MHz 137 147 MHz 137 174 MHz 138 174 MHz	RX: 137 MHz 103 - 137 MHz 103 MHz 103 - 137 MHz 103 MHz 103 MHz 103 - 137 MHz 103 M	RX. 108 - 137 MHz 108 - 137 MHz 117 - 174 MHz 118 - 174	ACC 137 Miles 137 - 138 Miles 138 - 137 Miles 138 - 138 Miles 138 Miles	182: 132 - 137 Mile: 137 - 138 Mile: 138 Mile: 138 Mile: 138 Mile: 138 Mile: 138 - 138 Mile: 138 M	

Mobile Transceivers

The same of the sa	FM Quad Band	FM Du	al Band	FM Single Band						
Piri	FT-8900R	FT-7900R	FT-7900E	FTM-3100R	FTM-3100E	FT-2980R				
General										
Frequency Ranges	RX: 28 - 29.7 MHz SD - 54 MHz 108 - 130 MHz 320 - 430 MHz 700 - 885 MHz US Version Cellular Blacked TX: 28 - 29.7 MHz SD - 54 MHz 144 - 146 MHz m 144 - 146 MHz 430 - 450 MHz ar 430 - 440 MHz	RXi 10a 520 MHz 700 - 999 MHz 100 - 999 MHz US Version Celular Blocked TM: 144 - 148 MHz 430 - 450 MHz	RX: 108 - 520 MHz 700 - 996 MHz TX: 144 - 145 MHz 430 - 440 MHz	P.X: 136 - 174 MHz TX: 144 - 148 MHz	P.X: 136 - 174 MHz TX: 144 - 146 MHz	RX: 136 - 174 MHz TX: 144 - 148 MHz				
Channel Steps	5, 10, 12.5, 16, 20, 25, 50 kHz	6, 10, 12,5, 16, 20, 25, 60, 1	IDO KHZ	5. 6.25. 10, 12.5. 16, 20, 3	ZS. 50, 100 kHz	5, 10. 12.5. 15. 20. 25. 50. 100 kHz				
Frequency Stability	±5 pown (+14°F to + 140°F, -10°C to + 60°C)	±5 ppm (+14°F to + 140°F	10°C to + 60°C)	±10 ppm 4-4°F to + 140°F	+20°C to + 60°C)	±10 ppm (-4°F to + 140°F, -20°C to + 60°C)				
Supply Voltage	Numinel 13 a Y DC, Negative-Ground Operating 11.7 - 15.8 V DC, Negative Ground	Nominal 13.8 V DC, Megative Operating 11.7 - 15.8 V DC, N		Nominal 13.4 V DC, Negati Operating 11.7 - 15.8 V DC		Numinal 13.8 V DC, Hegabye Ground Operating 11.7 - 15.8 V DC, Negative Ground				
Current Consumption	0.8 A (Receive) 8.5 A (TX, 29/144 MHz 50W) 8 A (TX, 50 MHz 50W/430 MHz 35W)	0.5 A (Receive) \$.5 A (TX, 144 MHz 50 W) 9 A (TX, 430 MHz 45 W)	0.5 A (Receive) 3.5 A (TX, 144 MHz 50 W)		W) 5 A (5 W)	D.7 A (Recente) 15 A (\$0W) / 9 A (30 W) / 5 A (10 W) / 4 A (5 W)				
Operating Temperature	-0°F to + 140°F, -20°C to + 50°C	-4°F to + 140°F, -20°C to + 60°C		+4"F to + 140"F, -20"C to	+ 60°C	-4°F to + 140°F, -20°C to + 60°C				
Case Size (Whd-bdD)	5.5" x 1.6" x 6.6" (140 x 41.5 x 168 mm) (WO look & connectors)	5.5" x 1.6" x 8.6" (140 x 41.5 (W/O knob & connectors)	x 168 mm)	Radio Unit / 6.1" x 1.7" x 6 (W/O Fan & knob)	1° (154 x 48 x 155 mm)	8.5" x 7.0" x 7.5" (160 x 50 x 165 mm) (W/O knob & connectors)				
(Weight	2.2 lbs (1 kg)	2.2 lbs (1 kg)		2.66 lbs (1.3 kg)		4.2 lbs (1.9 kg)				
Transmitter										
RF Power Output	50 / 20 / 10 / 5 W (29/50/144 MHz) 35 / 20 / 10 / 6 W (430 MHz)	50 / 20 / 10 / 5 W (144 MHz) 45 / 20 / 10 / 5 W (430 MHz)		68/30/5W		80/86/10/5W				
Spurious Emission	At least 60 dS below (29MHz: At least 50 dB below)	At least 60 dB below		At least 60 dB below	At least 60 dB below At least 61.1 dB below (65 W)	At least 60 dB below				
Microphone Impedance	z kΩ	2 kΩ		zkΩ		zkΩ				
Receiver										
Sensitivity Measurement Method AM More; 18 dB SNAD Rigital Mask BER 19	0.2 pV (FM)	0.2 μ∜ (FM)		0.2 pV (FM Narow) 0,22 pV (FM Wide)		D.4 pV (FM)				
Selectivity	12 kHz / 30 kHz (-6 dB / -80 dB)	12 kHz / 30 kHz (-6 dB / -60	dB)	12 MHz / 28 KHz -6 dB /-60	alk)	12 kHz / 28 kHz(-6 dB /+60 dB)				
AF Output	2 W @ 6 (2 for 5 % THD (@ 13.8 V)	2 W @ \$ Ω for 5 % THD (@ :	13.B VI	3 ₩ Ф 4 Ω for 10 % THD (₩ 13.8 VI	3 W @ 4 12 for 10 % THD (@ 13.5 V)				

Digital Repeaters

	3	C4FM/F	M Dual Band			C4FM/FM Dual Band							
	DR ZX	DR 200E	DR 1X	DR 1XE		DR-2X	DR-2XE	DR-1X	DR-1XE				
General					Transmitter								
Fraquency Ranges	144 - 148 MHz 430 - 450 MHz	144 - 146 MHz 430 - 440 MHz	144 - 148 MHz 430 - 450 MHz	144 - 146 MHz 430 - 440 MHz	RF Power Output	S0/20/5 W F1D, F2D, F8E: Variable Reactance Minimulations F7W: 4FSK (G4FM)		50/20/5 W 50/2				50/20/5 W	
Emilsalon Type	F1D. F2D. F3E, F7W		F10, F20, F3E, F7W		Modulation Type			F1D, F2D, F3E: Verlable Reactance Modulation F7W: 4F3K (C4FM)					
Frequency Stability	±2.5 ppm (-4°F fo + 1	40°F, -20°C (6 4 60°C)	±2.5 ppm (-4°F to s	140°F, +20°C (a + 60°C)	Spurious Emission	At least 50 dià below		At least 60 dB below					
Ardenna.	50 Q 50 Q		Receiver										
Impedance	00.0		pu th		Circuit	Double conversion super-héterodyne		Double conversion super-haterodyne					
Supply	AC 100 - 240 V DC 11.7 - 15.8 V.	DiG 11.7 - 15.4 V, negative eround	AC 100 - 240 V DC 11.7 - 15.6 V	DG 11.7 - 15.8 V. negative pround	Туре	mentes e-mitos sum Onlica -pictolidalisto		sydner denien kelnt ankon-mand destruk					
Voltage	DE 11.7 - 10.0 Y	ringative district	negative ground	Licherton Broditin	Intermediate	1st 47 25 MHz 2nd: 450	kHz.	Set: 47.25 MHz. 2ml: 450 kHz					
Operating	-4°F to = 140°F	-4°F to + 131°F	-4°F to 4 140°F	-4°F (0 + 131°F	Frequencles			77,20					
Temperature	(-20°C to + 60°C)	(-20°C to + 55°C)	(-20°C to + 80°C)	(-20°C to + 55°C)	Receiver Sensitivity	0.3 µV (Digital 2 m/70 cm) 1 0.2 µV (FM 2 m/70 cm) 1		0.3 pV (Digital 2 m/70 cm) BER 1% 0.2 pV (FM 2 m/70 cm) 12 dB SINAD					
Moderations (WodderD)	19" x 3.5" x 15" (482)	19' x 3.5' x 15' (482 x 84 x 380 mm) 19' x 3.5' x 15' (482 x 88 x 380 mm)		Adjacent Channel	Better than 65 dB TYP (20 icHz offset)	Setter than 85 dB TYP (20 kHz offset)						
	20.72 lbs (9.4 kg)	18,52 Rus (0.4 kg)	18,52 Ros (0.4 kg) 22,05 lbs (60 kg)	19.40 lbs (8.8 kg)	Selectivity								
Malght.					Selectivity	PM 12 kHz/95 kHz (-6 d)	3 / - 60 dB)	FM 12 KN2/35 kHz (-8 dB	/ -60 dB}				
арргаж.)					Intermedulation	Better than 65 dB 7YP (20/40 kHz offsell)	Better than 95 dB TYP (20/40 kHz offset)				
					Audio Output	4 W @4 Ω for 10 % THD	(& 13.6 V) Internal Speaker	4 W @4 Ot for 10 % THD (@ 13.8 V) Internal Speak					

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